THE CHEMIST AND DRUGGIST

ESTAB. 1859

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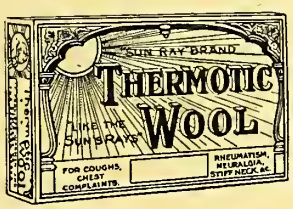

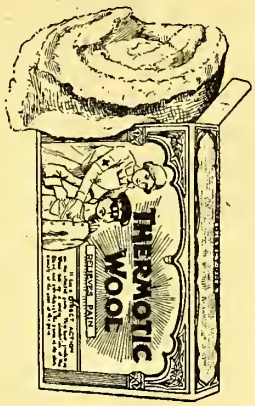

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As Loughborough is almost in the centre of England, and there are three railway junctions within easy reach of our premises, we shall be very favourably placed for distribution; and milk supplies for the manufacture of Sanatogen will be even better than in Cornwall.

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Tartaric Acid
Terpineol
Terpine Hydrate
Theobromine
Thymol Crystals
Vanill n
Zinc Oxide

R·W·Greeff & Co·Ltd·

Thames House·Queen Street Place·London·E·C4

Telephone·6550 City
(8 LINES.)

MANCHESTER BRANCH
PALATINE BANK BUILDINGS
10, NORFOLK STREET.
TELEPHONE·CITY 5706/5707

NEW YORK AGENTS
R·W·GREEFF & CO. INC.
78, FRONT STREET.

CATCH THE SEASON'S TRADE NOW!!

BY SHOWING

SLIPPERINE

Remember — Slipperine "makes" the perfect floor, and makes good profit for you.

P. A. T. A. 1/6 ord. size, 12/- doz. / 2/6 dble. size, 20/- doz. — *Less 2½% Discount One Month.*

Six dozen 1/6 or equivalent less 5% One Month, Carriage Paid.

Obtainable from most wholesale houses. If in difficulty we can send you a TRIAL lot carriage paid.

Why not write us for WINDOW-SHOW TERMS?

JOHNSTON & ADAMS, Dundee, Scotland.

Export Representatives: W. C. RUDKIN & CO., 44 King William Street, London, E.C.4.

P.A.T.A. NOTICE.

18 Tavistock Square, W.C.1.

September 2nd, 1921.

The following prices come into force on the dates specified below:

Size		M.R.P.	M.W.P.
4 oz.	Allen & Hanburys' Preps.: "Café Vierge"	2/3	20/3 doz.
8 oz.	,, ,,	4/-	36/- ,,
20 oz.	,, ,,	8/6	76/6 ,,

Prices come into force to Retailers Sept. 2nd
,, ,, ,, ,, ,, Public ,, 16th

The P.A.T.A. prices of Vichy-Celestins and Contrexeville are republished for information:

Size		M.R.P.	M.W.P.
Small	Contrexeville-Pavillon Water	13/9 doz.	11/6 doz.
		56/6 case	46/6 case 50
Large	,, ,, ,,	20/- doz.	16/- doz.
		79/- case	65/- case 50
Small	Vichy-Celestins ...	16/9 doz.	13/6 doz.
		65/6 case	54/- case 50
Splits	,, ,, ...	10/- doz.	8/- doz
		76/6 case	63/- case 100
Large	,, ,, ...	21/6 doz.	17/3 doz.
		85/- case	70/- case 50

PARKES'
BALL-ROOM
FLOOR POLISH

HIGH POLISH. NO DUST.

Secure the season's trade by giving a trial of the most satisfactory preparation on the market

1/6 size tins - - **11/6** per doz.
2/6 ,, - - **19/6** ,,

Carriage paid on 2 dozen of each size.

Sample tin post paid for **1/6**

JOHN PARKES & CO.

PRIORY WORKS, WARWICK.

Maw's Page

Sept. 3, 1921 No. 516

The Public Demand Maw's Dressings

13th August, 1921.

Gentlemen,—Kindly quote me for 2-oz. and 1-oz. packets of Lint, plain and Boric, and Cotton Wool. I find that people ask for your packets with the yellow label; and what amount do you send carriage paid?

I enclose cheque.

Yours faithfully,
(Signea) T. J. B.

This letter from one of our customers is direct evidence that the attractive packing of Maw's Surgical Dressings with the striking yellow label actually increases sales. The public demand Maw's Dressings because they know by experience that the contents of each package are just as satisfactory as the outside appearance.

Are you stocking Maw's Dressings? Are you giving them adequate display? Are you pushing them whenever an opportunity occurs? You will take a pride in selling Maw's Dressings—the pride that comes of selling a really good article at a fair price, and knowing that further business is sure to follow.

Send for particulars of special discounts with £5, £10 and £20 parcels.

Telephone: City 7 Private Branch Exchange

Telegrams: Eleven Cent London

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

Cables: Eleven London

Code A.B.C. 4th & 5th Edition

Reduction in Price.

The Proprietors of Zee-Kol wish to point out to the Retail and Wholesale Trade that from 1st September, Zee-Kol Medicated Soap will be retailed at **1/-** per tablet and **2/9** per box of 3.

Wholesale Price 9/- per dozen.

The Zee-Kol Manfg. Co. are forced at a big loss to make this reduction in order to keep pace with the drop in prices of everything. Zee-Kol preparations are the finest on the market, and being made of the best ingredients leave only a small margin of profit when advertising, etc., is calculated.

ZEE-KOL PREPARATIONS.

		M.R.P.	Wholesale Price.
Zee-Kol	Ointment for all Skin diseases	1/3 & 3/-	12/- & 28/6 per doz.
,,	Blood and Tonic Pills ...	1/3 & 3/-	12/- & 28/6 ,,
,,	Medicated Soap, M.R.P. 1/- tablet, or box of 3 for 2/9		9/- ,,

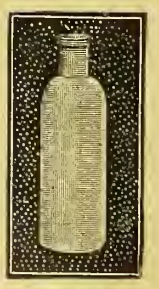
THE ZEE-KOL MANFG. CO., 39 Mitchell Street, Old Street, LONDON, E.C.1.

THE TRADE CENTRE IN GLASSWARE.

NEARLY all your requirements in stock.

Jules Lang & Son are in the position to supply nearly every trade requisite in glass immediately from their various London and Provincial depots. Look around and see what you are wanting, then write, phone or wire us.

KALI


LIME

Bottles, Jars, Chemical and Laboratory Glassware in immense variety.

Narrow-mouth SHOP ROUND

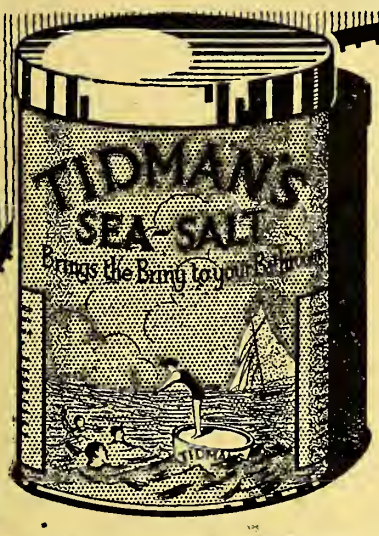
MEDICAL

Wholesale ONLY. **JULES LANG & SON** No RETAIL Firms supplied.

Charlton Works · Charlton Place · Islington · LONDON, N.1.

Telephones: North 2770-2 (3 lines).
Telegrams: "ASSORTED, PHONE, LONDON."

Codes: A B C, 5th Edition. Scott's 10th Edition (1906). Bentley's Complete Phrase Code.



An Old Favourite
In A New Container

Tidman's Sea Salt has been recognised for the last 60 years as the only way to **"bring the briny to the bathroom."** Its curative value is also well recognised, and although the new advertising campaign has only just been launched, the sales have immediately soared up in the most gratifying manner. There is every indication of a huge demand being created—**a demand which will only be filled through the trade!**

The new container overcomes all the deficiences attaching to the old, and has now been made strong, rigid and **entirely proof against the moisture which the contents absorb** when exposed to the air.

Size and advertised price, P.A.T.A.	Minimum Wholesale price, P.A.T.A.
1/-	9/- per doz.
1/9 (twice 1/- size)	15/9 " "
3/- (4 times 1/- size)	27/- " "
4/3 (bags about 14 lbs.)	38/3 " "
14/- (bags about 56 lbs.)	10/6 each.
26/- (bags about 112 lbs.)	19/6 "

Retailers are asked to note that in future carriage allowances are made by Tidman's and packing will be entirely free with no empties to be returned.

A WORD ABOUT ADVERTISING

The new idea in the Tidman advertising to at least 15,000,000 people in September alone, is to make Tidman's Sea Salt in regular demand as a daily Bath Salt. That is why it will be essential for the trade to send in their orders at once to ensure adequate supplies.

TIDMAN'S SEA-SALT

TIDMAN & SON, LTD.,
Head Office: 69 Basinghall Street, LONDON, E.C. 2.
Phone: London Wall 8266. Telegs.: "Modernism, Ave, London."

Be Ready To Meet the New Demand

Cellophane
What Is It?

CELLOPHANE

is a transparent film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat or moisture, and **sterilisable.**

An **ideal wrapping** for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency.** Can be had colourless, coloured and embossed.

Also in the shape of **Labels** for Bottles, and **Discs** for Creams, Ointments, Boot Polish, &c.

Cello-Dressings—The best substitutes for Gutta Percha and Oiled Silk. Ask for explanatory circular.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY
(LECLERCQ & CHARERAT),
Bolton House, Cullum Street, LONDON, E.C. 3.

GLASS BOTTLES for ALL TRADES, at CUT PRICES, IN STOCK.

ESTABLISHED 1880.

Limes, Kalis, Essences, Panelled and Plain Flats, Ovals, Mexicans, Medicals, Lubins, Poisons, Corn Solvents, Salines, Carlsbad Squares (with and without Stoppers), Mag, Cits. Rounds, Lysol Bottles in fine Amber, Tablet Bottles, Provence Oil Bottles, Fancy Salad Creams, &c. &c.

SPECIAL SHAPES Made to Order.

A. Ruch & Co., Ld.

Geo. G. Forsyth,
28 MARTIN LANE, CANNON STREET, LONDON, E.C. 4.
Telegrams—"Sennock, Cannon, London."
Telephone—Central 4799.

Profitable Specialities

From every point of view P., D. & Co.'s protected preparations are worthy of special attention. They yield a really satisfactory protected profit; they are pharmaceutical products, and for supplies all enquiries are referred to the *pharmacist.*

Antacid Lozenges

An agreeable combination of approved neutralising agents with carminatives and Taka-Diastase. Attractive tins of 48, issued in 1-dozen display outers.

M.R.P. 1/3 M.W.P. 10/2 net per dozen

Fecto

A solution of hypochlorites and chlorine, containing about 4% of available chlorine. A non-poisonous germicide, deodorant and disinfectant of proved value.

		M.R.P.	M.W.P.	
8-oz.	...	**1/3**	**10/2**	**net per dozen**
16-oz.	...	**2/3**	**18/0**	**„**

Germicidal Soap (McClintock)

A safe and convenient means of using mercuric iodide as an antiseptic. It may be recommended as a shampoo for use in dandruff. Leaflet available.

M.R.P. 1/3 M.W.P. 10/2 net per dozen

Hydrogen Peroxide Solution

The label is a guarantee to both the retailer and his customer, and at the same time suggests many new uses. Leaflet also available.

		M.R.P.	M.W.P.	
4-oz.	...	**1/6**	**12/2**	**net per dozen**
8-oz.	...	**2/6**	**20/6**	**„**
16-oz.	...	**4/6**	**39/3**	**„**

Salevac

A particularly agreeable aperient saline in fine uniform granules. Salevac is issued in effectively sealed bottles containing about 5 oz.

M.R.P. 2/6 M.W.P. 21/9 net per dozen

Full list of protected specialities on request.

PARKE, DAVIS & Co.

50-54, Beak Street, LONDON, W.1.

Laboratories - - Hounslow, Middlesex.

T. J. 1

AYRTON'S WEEKLY

PAGE 15

"You can get it at Mr.....!"

"I saw it on the Screen last night!"

Will *you* be that "Mr....."?

Screen ads. make an impression which sticks. You can reach thousands of potential customers with our artistically designed and coloured lantern slides ***bearing your name and address.*** Their humour is forceful and is delivered with the punch that creates sales.

Two facts worth your consideration—

AYRTON'S HAIR PRESCRIPTION

will positively grow hair—and an Ayrton lantern slide will positively sell Ayrton's Hair Prescription. Unfortunately, the illustration does not do justice to the artistic beauty of this slide. If you are still undecided, ask our representative to show you an original—then place your order.

SPECIAL OFFER.

With an order for three dozen Ayrton's Hair Prescription (Retail P.A.T.A. 1/9; Wholesale, per doz. 14/-) we will send you thirty-six introductory letters bearing your name and address, each one enclosed in a plain envelope with a sample C.N.O. tablet (the original cocoanut oil shampoo tablet) ready for distribution to your clients—each one is a potential salesman. In addition we will send you a lantern slide bearing your name and address. Showcards, window bills and blotters will be supplied with all orders on request.

Write to-day for copy of Screen Ads.!

AYRTON, SAUNDERS & CO. LTD

Manufacturing Chemists **Hanover Street, LIVERPOOL**

SELL SOCKS

WITH A BRAND NAME

"CURASOL"

BORACIC SOCKS

Because the public are pinning their faith more and more to goods with a "brand" name.

The "brand" is for their protection ; Curasol is easy to ask for ; Boric, Boracic, and Borax are confusing terms to the lay mind.

"Brand" goods are good goods because it is sheer business suicide to give a good name to a poor article.

Curasol Socks are the very best Boracic Socks obtainable.

Per 4/0 doz.
6 doz. and over 46/0 gross.
Show carton 36 assorted pairs, 12/0.

SOLE

AGENTS.

THIS outer contains three dozen sixpenny tins of "Souchets." It costs 11/3 and quickly creates sales to the value of 18/-

'Souchets' are at present available in the following varieties:
LICORICE & MENTHOL AMMONIATED LICORICE
LICORICE, MENTHOL, EUCALYPTUS & CHLORODYNE

0/119

THOMAS KERFOOT & Co LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

Cables and Marconigrams: "ALLUWANT LONDON."
Telegraphic Address: "POMADE, SMITH, LONDON." Telephone: CITY 4061, 4062, 40 3.

BUTLER & CRISPE

J. H. CRISPE L. H. CRISPE R. P. GOWER

English and Foreign Proprietary Medicines, Perfumery, Toilet Goods, Druggists' Sundries

IMPORTERS
EXPORTERS
& DISTRIBUTORS

80-82 Clerkenwell Road, London, E.C.1.

BANDAGES. Open Wove N.H.I.

	3 yards × 1 in.	4 yards × 1½ in.	2 in.	2½ in.	3 in.	4 in.
White	6/6	14/-	18/-	22/6	26/6	35/-
Grey	5/-	11/-	14/6	17/6	20/-	26/6 gross net.

Each Bandage individually wrapped and labelled except the 1-inch, which are papered only.

BORIC LINT.

Packets -	1 oz.	2 oz.	4 oz.	8 oz.	1 lb.
Per lb.	2/6	2/4	2/2	2/-	1/10

28 lb., ½d. lb. less; 1 cwt., 1d. lb. less.

COTTON WOOL. White Absorbent, Interleaved.

Packets -	1 oz.	2 oz.	4 oz.	8 oz.	1 lb.
Per lb.	2/-	1/9	1/7	1/5	1/3

14 lb., ½d. lb. less; 56 lb., 1d. lb. less.

LINT.

Packets -	1 oz.	2 oz.	4 oz.	8 oz.	1 lb.
Per lb.	3/3	3/1	2/11	2/9	2/6

14 lb., ½d. lb. less; 28 lb., 1d. lb. less.

We have also the most complete stock of Proprietary Goods in the Trade.

Autumn and Winter Stocks

TRADE is on the turn. Don't be lacking when the demand comes. *WE* are ready with Seasonable Lines such as :—

Capsicum Tissue.
Capsicum Chest Protectors.
Pneumonia Jackets.
Hot Water Bottles.

Competitive Prices. ***Quick Delivery.***

THE DIRECTORS WILL GIVE PERSONAL ATTENTION TO YOUR ORDERS AND ENQUIRIES.

ROBERT BAILEY & SON, LTD.

49 & 51 CENTRAL STREET, LONDON, E.C. 1.

Phone : 8744 CITY.

Wire : "Undisputed, Finsquare, London."

N.V. CHEMISCHE FABRIEK "NAARDEN"

BUSSUM, HOLLAND.

GLYCERINE CHEM. PURE, S.G. 1·26

VANILLIN 100 % CHEM. PURE.

COUMARIN 100 % CHEM. PURE.

SAFROL, PURE.

Apply for prices:

GERALD BROMAGE & CO., 9-10 Foster Lane, E.C.2

Telephone: CITY 4719

RUVOIRE ET CIE

MANCHESTER & ANTIBES.

High-class Concentrated Perfumes made with some of the finest flower oils from the South of France, in high-class rod-stoppered hexagon bottles with gold seals.

ODOURS—

PARMA VIOLET. SWEET PEA.
WHITE ROSE. WHITE LILAC.
WALLFLOWER. LILY OF THE VALLEY.

FREE FROM SPIRIT.

Above combination mounted on artistic card, displaying One Dozen Bottles.

A very attractive and good Selling Line.

APPLY— **A. M. EVANS,**
154 CHURCH LANE, HARPURHEY
MANCHESTER.

Shipkoff's Pure Otto of Rose

Nature ordained that Otto of Rose should have certain chemical and physical contents. Fakers design rose oils having the same contents, but they are not *Otto of Rose.*

Shipkoff's Otto of Rose is Nature's Otto.

Before placing your contract be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 & 4-oz. sizes.

ONCE TRIED—ALWAYS USED.

Highest Awards at all Universal Expositions, including Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria.

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.

The Gnat Nuisance Solved.

"SUMMAREEN"

Regd. Trade Mark—No. 415705.

Vanishing Cream. Face Powder.
Dusting Powder. Brilliantine.
Lotion.

Retail 2/6 each article. Wholesale 20/- per doz.

Perfectly harmless and refreshingly perfumed, the "Summareen" preparations can be safely recommended to provide *complete immunity against all insect bites.*

Full particulars from the Manufacturers—

Carmichael Soap & Perfumery Co. Ltd.,
Macfarlane Road, Shepherd's Bush, London, W.12.

CHEMICAL WORKS ROERMOND

H. RAAB & CO.

ROERMOND, HOLLAND.

Manufacturers of

Base Perfumery Products and Flower Oils.

- RACO -

MUSK AMBRETTE c.p. 100 %

MUSK KETONE c.p. 100 %

MUSK XYLOL c.p. 100 %

OLEUM-MUSK art.

generally regarded as the

STANDARD.

Sole Representative for the U.K.:

ALFRED PAUL WHITE, 5 Water Lane,

Gt. Tower Street, LONDON, E.C. 3.

K. B. MAVLANKAR

Telegraphic Address:
"EKDUM LONDON."
Codes:
ABC, 5th; BENTLEY'S

ESSENTIAL OILS
Synthetic Chemicals
Natural Flower Oils
Artificial Flower Oils
MUSK. AMBERGRIS.
CIVET
All Indian Essential Oils

Telephone:
HOLBORN 2499.

Sole European Agent to
ESSENFLOUR
PRODUCTS, LTD.,
Mysore, S. India.

Sole Agent in U.K. to
Messrs. POLAK & SCHWARZ, Ltd.,
Zaandam, Holland,
AND
DITTA MARIO DE
PASQUALE, Messina.

26-27 Hatton Garden - - LONDON, E.C. 1.
And at 29 CORPORATION STREET, MANCHESTER.

CHLOROPHYLL

HIGHEST QUALITY. ABSOLUTELY PURE. UNIFORM DELIVERIES.

CHLOROPHYLL C. Oil soluble. Blue Shade.
CHLOROPHYLL CG. Oil soluble. Yellow Shade
CHLOROPHYLL S. Water and spirit soluble.

THE SANDOZ CHEMICAL CO. LTD., BRADFORD.

ROURE BERTRAND FILS, GRASSE. *Established 1820.*

LAVENDER (French), SPIKE LAVENDER (French and Spanish)
NEROLI, GERANIUM (African and Bourbon), SANDALWOOD, PETITGRAIN (French and American),
VETIVER (Java and Reunion), ROSEMARY, BOIS DE ROSE FEMELLE, YLANG, &c.
ORRIS CONCRETE and LIQUID.
ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.
We have Stocks in London of the most important Essential Oils and Perfumery Products.

JUSTIN DUPONT, Argenteuil (S. & O.), France

Makers of SYNTHETIC PERFUMES
and some of the finest original odours extant, for Sachets, &c.

SOLE AGENTS FOR THE UNITED KINGDOM:
STEPHENS BROTHERS & CO., Offices: 13a FINSBURY SQUARE, LONDON, E.C. 2
Warehouse: 3/4 MALLOW STREET, OLD STREET, LONDON, E.C. 1.
Wholesale Houses only supplied.

American Essential Oils

We offer, for prompt shipment, in original packages or any size container desired :—

OIL LIMES

Distilled—Hand Pressed. Best West Indian Quality.

Oil Sweet Birch U.S.P.
Oil Spearmint U.S.P.
Oil Linaloe, Mexican
Oil Bay, West Indian
Oil Erigeron
Oil Wormseed

For particulars, etc., apply to:

E. GUILLEVIC & CO.
19 St. Dunstan's Hill, LONDON, E.C.3
Exclusive agents for United Kingdom and France.

Manufacturers and Exporters

MAGNUS, MABEE & REYNARD, INC.

New York City U. S. A.

THE FINEST

PEPPERMINT, LAVENDER & CAMOMILE OILS

are distilled and prepared by

J. JAKSON & CO.

(MITCHAM ROAD 1921) LTD.
WEST CROYDON, SURREY.

LARGEST GROWERS & DISTILLERS IN ENGLAND.

Agents for U.K.:

F. NEWBERY & SON Ltd.
27 & 28 Charterhouse Square, London, E.C. 1.

FOR HIGH CLASS *Synthetic*

OTTO of ROSE ARTIFICIAL VIOLET & LILAC

at prices which DEFY Competition.
write to the

ACTUAL MANUFACTURERS,
ABDUL ISHMAL HAMIRA & Co. Limited
24, WHITE'S ROW, COMMERCIAL ST.
LONDON, E.1. ENGLAND.

Samples and quotations on receipt of post card.
BRITISH AND COLONIAL REPRESENTATIVES AND BUYING AGENTS WANTED EVERYWHERE.

BOTTLES

100 gross 2-oz. Ring Neck Brills, White Glass, Star Bottoms ... ... 9/6 per gross
Also 50 gross 2-oz. White Panels, 9/6 per gross
Also 50 gross 1-oz. Heavy Cannons, 9/6 per gross

W. SMITH,
169 RAILWAY ARCHES, BRAINTREE STREET, CAMBRIDGE ROAD, MILE END, E. 2.
Telephone: Central 13647.

". . . . COMPLETELY SOLD OUT"

From scores of appreciative letters, this, from a Fifeshire pharmacist, is typical:

"'A SUMMER NIGHT' is the best selling line in perfumery I have struck. The trial order you kindly sent me is completely sold out. Kindly send me a further supply."

"A Summer Night" is a perfume that is different.

A free testing sample, with quotations, will interest you.

—PRICE'S—
Battersea, S.W.11.

Parfumerie *Paris*

Bourjois

Poudre de Riz de Java

No. 45
10/- per doz.

P.A.T.A.
1/3 per box.

No. 45.

No. 495.
7/- per doz.

P.A.T.A.
10½d. per box.

A. Bourjois & Cie, Ltd., 66 Carter Lane, London, E.C. 4.

Also manufacturers of the celebrated "ASHES OF ROSES," No. 2, 15/- per doz.; P.A.T.A. 1/9 per box.

Will your Perfumery Dept. Show a Profit on Dec. 31st?

1921 has been a year of difficulty and uncertainty for the British retailer. Never was it so vital for him to know what goods to stock. Whether he shows a profit or a loss next December 31st will depend on his selection of merchandise for the rest of the year.

In the Toilet Specialties and Perfumery Department, the retailer can insure profits by stocking Vivaudou goods.

Manufactured in France by a master perfumer who spent several years in England, Vivaudou Specialties may be relied upon to please the British public. In "get-up" they express the exquisite taste of Paris; in price they meet to-day's insistent demand for "money's worth." Vivaudou prices are not war-prices.

MAVIS—Vivaudou's best-known series—has already met with a gratifying reception in England. It will pay you to display and push MAVIS Perfumery, etc. Here are the prices of a few of the MAVIS Specialties. The Vivaudou discounts insure a profit on sales of over 40%.

	Wholesale Price per Dozen	Retail Price
Parfum MAVIS, large	176/-	21/-
„ MAVIS, medium	88/-	10/6
„ MAVIS, sample size	37/6	4/6
Toilet Soap MAVIS	13/6	5/- (box of 3)
Face Powder MAVIS	29/6	3/6
Talcum Powder MAVIS	12/6	1/6
Shaving Stick MAVIS	10/6	1/3
Cold Cream MAVIS, jar	25/-	3/-
„ MAVIS, tube	12/6	1/6
Vanishing Cream MAVIS, jar	25/-	3/-

A magnificent Window Display of attractive and novel design will be supplied free with orders of £20 *gross* value, or by special arrangement.
Please write for our Price List and Special Terms.
Intelligent advertising now under way will help you move Vivaudou goods off your shelves.

Vivaudou
15 RUE ROYALE PARIS
Creator of Arly's La Boheme, Syvam, Parfumez-Vous and other distinctive Perfumes.

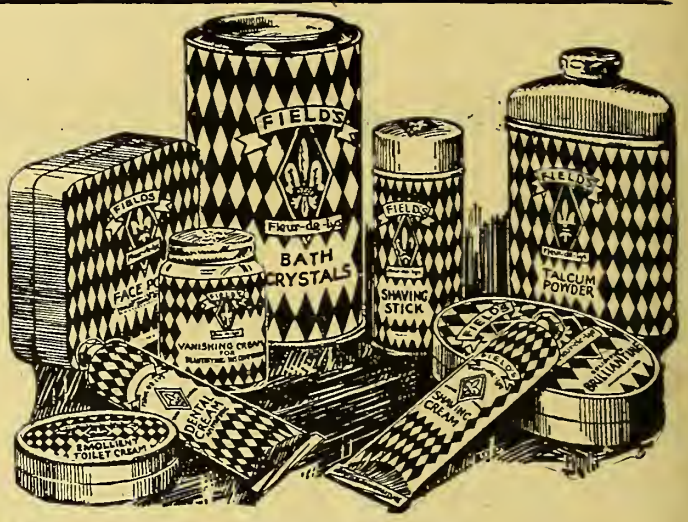
Offices, Showrooms and Warehouse for the United Kingdom:
1 MONTAGUE ST. LONDON, W.C. 1.
Telegrams: "OCCOMOPIC, WESTCENT, LONDON."
Telephone: MUSEUM 3413.

Works of Vivaudou-Arly-Delettrez (Parfumerie du Monde Elegant), Gennevilliers (Seine), France.

IN their presentation to the public, Field's Fleur-de-Lys Toilet Preparations strike an entirely new note. They are daintily packed in containers covered with a very arresting yet dignified design of old gold and black diamonds, that cannot fail to attract the attention of your customers, and convey a very pleasing impression.

These lines are all a lucrative source of profit to you, and their quality, and the very attractive manner of their presentation to the public, assure that the advantageous terms offered you are regular and continual.

Their quality is backed by our high reputation—nearly 300 years old.



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Estd. in 1642, in the reign of Charles I.

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SILMERINE - - Hair curling fluid.	22/6	2/6
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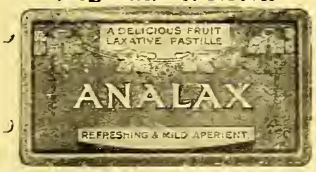

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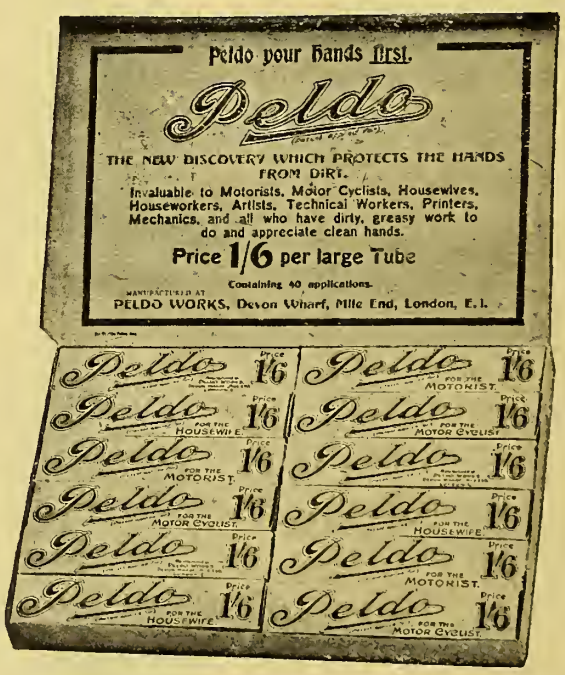

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13/6
PER DOZEN

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows :

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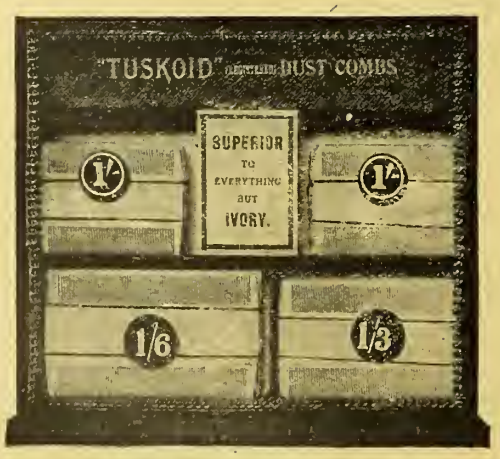

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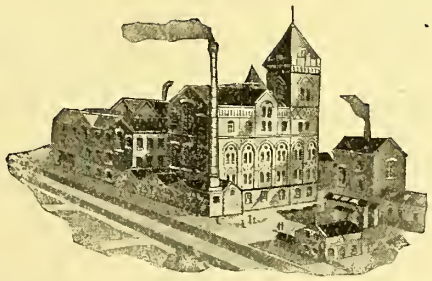

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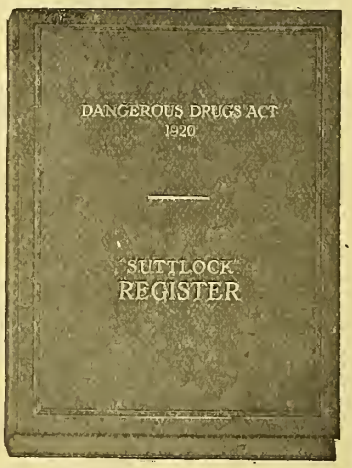

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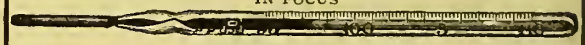

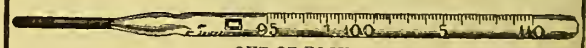

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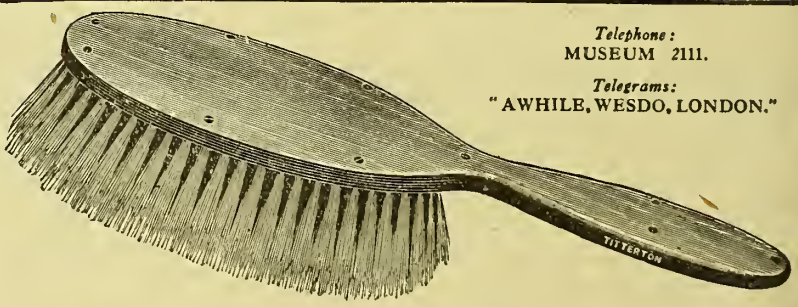

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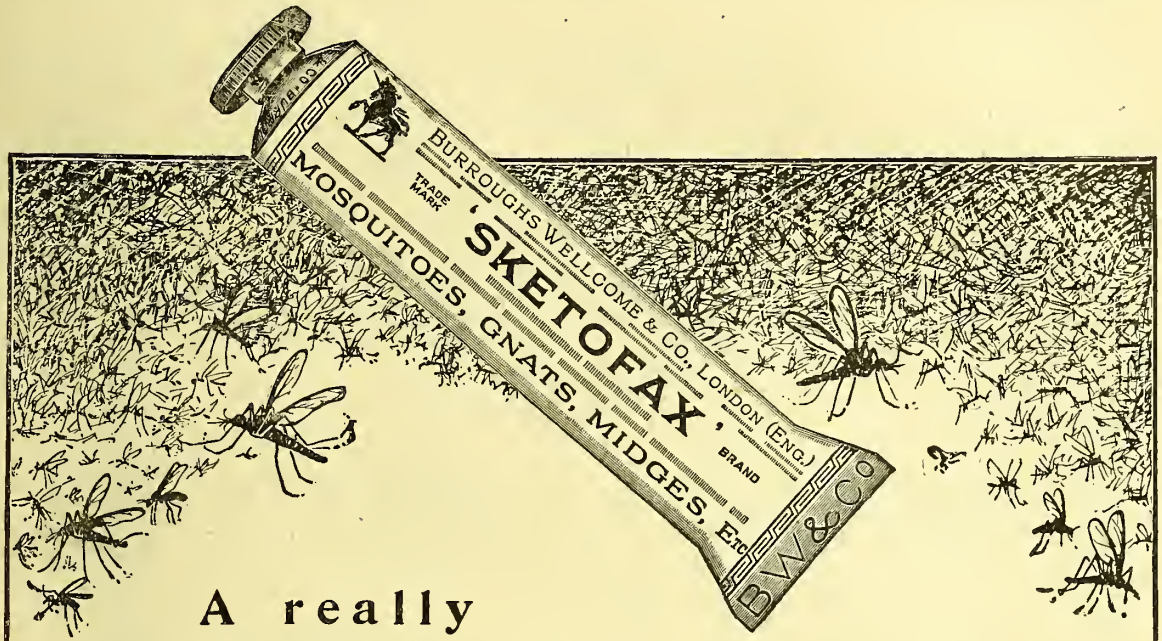

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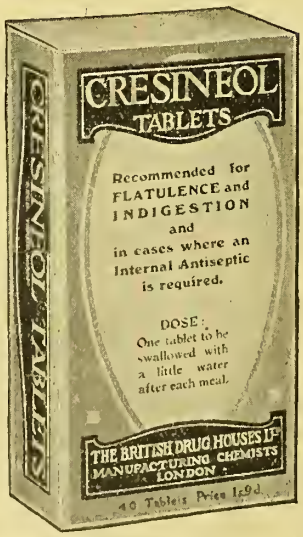

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Dangerous Drugs Act Card

THE Dangerous Drugs Act card, which is on sale at the various offices of THE CHEMIST AND DRUGGIST, can be supplied by post at the following prices for cash with order:

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The card can also be obtained by callers at our provincial offices: 49 County Buildings, Old Millgate, Manchester, and 54 Foster's Buildings, High Street, Sheffield.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Poor-law Dispensers' Tenure of Office

It has been usual in recent years to decline to grant security of tenure to dispensers in poor-law institutions, while such officials as medical officers, matrons, and stewards enjoy full security. Dispensers cannot even obtain an increase of salary without the sanction of the Ministry of Health; and it is not an uncommon occurrence for the Department to refuse its sanction, the Whitehall authorities having no knowledge of the merits of individual cases. The position of the pharmacist in such institutions is largely being undermined, and in the eyes of the staff he is being relegated to second-class rank. It is understood that fresh arrangements are in preparation in several London and provincial poor-law unions, and it is felt by pharmacists concerned that immediate steps should be taken by the Pharmaceutical Society, the Public Pharmacists' Association, or both bodies, to safeguard the status of institutional pharmacists, any reduction of which is likely to reflect on the whole body of persons qualified under the Pharmacy Acts.

Educational Items

Since the appearance of our Educational Number (August 20) the following prospectuses have been received:

Bradford Technical College.—The full-time courses are of university standard. Evening courses are provided for those engaged in industry during the greater part of their time. Fee for a session's tuition for the Pharmaceutical Society's examination (Part I.), 9*l*. 9*s*. Registration for part-time classes commences on September 13.

Sir John Cass Technical Institute, London, E.C. 3.—The classes are arranged so as to meet the requirements of students preparing for the degree of B.Sc. or for higher degrees of London University in experimental science. The next session opens on September 26.

We have also received a copy of the new Regulations for the competitive selection of chemists (class II.) in the Government laboratory. Candidates must possess a qualification not lower than the second-class honours degree of a university, and must have had two years' post-graduate experience in chemical work. The fee for the competition is 5*l*. The commencing salary is at present 225*l*., with bonus. Competitions are held from time to time on the occurrence of vacancies.

Poisonings

The following cases of fatal poisoning have been recorded since our last report:

An inquest was held at Wimbledon, on August 26, on the body of Frank H. Shrimpton, tailor's manager, who had been found dead on Wimbledon Common with two tubes, containing twelve 1-gr. cocaine tablets each, in his pocket. The coroner remarked that the tablets were used in veterinary hypodermic injections. It appeared that Shrimpton had contemplated committing suicide, and a medical witness attributed death to syncope caused by cocaine poisoning. A police-sergeant said that he had learned that the tubes of cocaine tablets could only be sold in Canada and must have been smuggled into this country. The coroner recorded a verdict of "Suicide during temporary insanity."

An inquest was opened in Marylebone, London, on August 31, on the body of Mr. Richard William Allen, M.D., 128 Harley Street, W. 1, who died at his residence on August 28. It was stated that Dr. Allen had formerly been editor of the "Journal of Vaccine Therapy," had acted as bacteriologist at many London hospitals, and had served as captain in the R.A.M.C. during the war, being invalided out owing to a nervous breakdown. The widow told the coroner she did not know her husband was addicted to drugs, but he had inoculated himself against coughs and colds, to which he was subject. He was sober, and in no financial trouble. Dr. Lennox Wainwright, who

attended the deceased, said that nothing could be done for him, as he was suffering from narcotic poisoning. There were marks on different parts of the body showing the constant use of a hypodermic syringe for injecting drugs, and the witness had no doubt that death was due to coma from the injection of a powerful mixture of morphine and cocaine. The inquest was adjourned for the attendance of another witness.

Birmingham

Local water charges are to be increased by 50 per cent. at the end of the month.

Soap is occupying a prominent position in most pharmacies at the present time.

The annual outing of the employees of Southall Bros. & Barclay, Ltd., took place on August 27 to Stratford-on-Avon.

The police are reported to be making. investigations concerning the vendor of a mercurial preparation palmed off as a replating mixture.

Liverpool

A daughter of Mr. Oliver Marsh, 89 Liscard Road, Wallasey, has distinguished herself in the Joint Matriculation Board examination.

Mr. William P. Evans, chairman of Evans Sons Lescher & Webb, Ltd., recently communicated to the "Daily Post" a statement of the inconveniences to the drug-trade caused by the postal break at the week-end.

Mr. John H. Robinson has paid a brief visit to Harrogate, and called on pharmaceutical friends there. Messrs. G. Milner Sleggs and G. R. Tharratt are among the fortunate Liverpudlians who are still on holiday.

Work is being resumed in ship-repairing yards. Coupled with the revival, however, comes the news that additional foreign services are promised at Southampton, and that more Atlantic liners will use that port in the near future.

In the personal note in this column of last week's issue on Mr. Robert MacAlley, chemist and druggist, who has been renewing the acquaintance of his friends in Liverpool and Southport while on a holiday, it should have been made clear that he is still with Parke, Davis & Co. Fifteen years ago Mr. MacAlley exchanged his ground in the North for a West End position on Messrs. Parke, Davis's representative staff; but his reception in Liverpool showed that he had by no means been forgotten.

Scarborough

Councillor George Whitfield, Ph.C., chairman of the local committee of this year's British Pharmaceutical Conference, and chairman of the entertainments committee of the Scarborough corporation, has just concluded a visit to Isle of Man and Lancashire watering-places. Mr. Whitfield undertook the tour in his municipal capacity, timing it so as to observe these popular resorts at the height of their season.

Although many interesting local records were brought to light in connection with this year's British Pharmaceutical Conference, no one seems to have remembered the brief existence of the former Scarborough Chemists' Association, which, as recorded in the *C. & D.* for March 15, 1870, was inaugurated on February 25 of that year by a dinner. "Those present," we read, "unanimously admitted the necessity of union for promoting mutual interests, and for preparing the younger branches . . . to pass the now necessary examinations." The first President was Alderman Porrett, and Mr. John Whitfield, Ph.C., filled the offices of secretary and treasurer.

Sheffield

Many chemists, taking advantage of the slackness in trade, have gone for a holiday, usually a motor tour.

The death is announced of Dr. T. H. Morton, the doyen of Sheffield's medical practitioners, aged eighty-three.

A motor delivery service between Birmingham and Sheffield has been inaugurated by Southall Bros. & Barclay, Ltd.

A bogus telephone examiner, a young man, is calling on local traders, and, if left alone, his investigations are carried further than is convenient. One business house has lost a considerable sum as the result of his activities.

Miscellaneous

Inquest.—An inquest was held in North-West London, on August 27, on the body of William W. Keen, a clerk in the employ of Edward Cook & Co., Ltd., soap manufacturers, Bow, E. The evidence showed that three weeks previously the deceased accidentally swallowed a piece of bone in the mess-room, and that death was due to hæmorrhage caused by injury to the œsophagus and stomach. A verdict of "Death by misadventure" was recorded.

Wages Dispute Settled.—It is announced that, as a result of the conciliation efforts of the Ministry of Labour, the stoppage of work threatened by chemical workers (*C. & D.*, August 27, p. 43) has been averted, and the notices have been withdrawn. It is understood that the terms of settlement provide for a reduction of 1½*d.* an hour from August 1 last, with another reduction of ½*d.* an hour from October 1. The settlement also provides for the stabilisation of wages until the end of the year.

Leakage of Cocaine.—At West London Police Court, recently, Alfred J. Wilkinson, labourer, charged on remand with being drunk and disorderly and with assault, was further charged with being in unlawful possession of some "tubes" of cocaine. A police inspector stated that Wilkinson professed to have purchased the cocaine from "a man in a public-house" for 2*s.*, but that it had evidently come from the medical department of the Disposals Board, the prisoner having been formerly employed there. A sentence of two months' hard labour was passed.

Sports Meeting.—A programme comprising twenty events and side-shows provided entertainment for a large gathering of members and friends of the Elco Athletic and Social Club (Evans Sons Lescher & Webb, Ltd.) at Streatham, on August 27, the proceedings concluding with a concert and dance. During the concert the prizes were distributed by Mrs. Anderson. The chief prize, the challenge cup, given by the directors of the company for the departmental relay race, was won in a close contest by the office team. Mr. A. Freeman, sports secretary, was warmly congratulated on the success of the meeting.

Inquiry on Lead in Paints.—The Home Secretary has appointed a Committee to re-examine the question of the danger from the use of lead paints to workers in the painting trades, the comparative efficiency and cost and the effect on the health of the workers of paints containing lead and leadless paints respectively; and to advise whether any modification of the recommendations of former Committees has become necessary. The Committee consists of Major Sir Henry Norman, M.P. (chairman), Messrs. Gerald Bellhouse, O. J. Kauffmann, M.D., Thomas M. Legge, M.D., Alan Munby, F.R.I.B.A., Alexander Scott, F.R.S., D.Sc., and H. C. Weller. The secretary of the Committee is Mr. C. W. Price, Home Office, Whitehall, S.W. 1, to whom any communications on the subject should be addressed.

In the Courts.—At Bow Street Police Court, London, on August 25, Richard William Starkie, M.R.C.S., L.R.C.P., was committed for trial on charges of performing illegal operations. Mr. John Webster, senior analyst to the Home Office, stated in evidence that he had analysed pills, tablets containing morphine, and capsules containing aloin. The contents of certain bottles had also been examined. Cross-examined, Mr. Webster said he could not say for what purpose these pills would be used. The accused was granted bail in the sum of 500*l.*—At Newcastle-on-Tyne Police Court, on August 30, Sidney Breach was remanded on a charge of having embezzled the sum of 20*l.*, the money of his employers, Brady & Martin, Ltd., surgical-instrument manufacturers, Northumberland Road. It was stated for the prosecution that the money had been paid by a customer of the company as a deposit in respect of an artificial limb, and that the balance of the cost, 14*l.*, had also been retained by the accused. Confirmatory evidence was given by Dr. William Martin, chairman of the directors.

Irish News

Brevities

Mr. T. P. Toher, Ph.C., Sligo, has intimated to the Tobercurry Guardians his inability to accept the medicine contract on the old terms, but that he is willing to allow a discount of 10 per cent., the accounts to be settled monthly. Further consideration was deferred.

Belfast

Mr. Robert Cambridge, J.P., Carrickfergus, an ex-President of the Chemists' and Druggists' Society of Ireland, who has been ill for some time, is at present recuperating in Portrush.

Mr. F. A. Reilly, 340 Lisburne Road, Belfast, has been appointed agent in Ireland for Piesse & Lubin, Regent Street, London, and Messrs. Goddon & Co., Lamb's Conduit Street, London. Mr. Reilly is the son of Mr. W. J. Reilly, J.P., Keady, co. Armagh.

At a recent meeting of the Belfast Selective Committee of the Appointments and Training Branch of the Ministry of Labour, it was reported that negotiations are in progress with the Pharmaceutical Society of Ireland for a class of twenty ex-Service men in pharmaceutical chemistry.

At the July Court of Petty Sessions in Letterkenny, the magistrates asked the police to inquire into the sale of methylated spirit, and this report has now been presented. The experience of the police is stated to be that those licensed to sell the spirit took any flimsy reason given by the customer.

Scottish News

Brevities

A bullock which had "run amok" entered the shop of Mr. J. Kelman, chemist and druggist, Ayr, recently, with disastrous results to the show-cases and their contents.

Several of the examination-fees, including matriculation, science, and medicine, of Scottish Universities have been increased. The revised scale operates from September 1.

Edinburgh

Business has slowed down considerably of late.

The quality of the paper now used for Insurance prescription forms does not meet with approval locally.

Fife

The prizes in connection with the recent Dysart swimming gala were previously exhibited in the shop-window of A. Forrester & Son, chemists.

Mr. A. G. Adamson, chemist and druggist, Kirkcaldy, chairman of Raith Rovers, has again been appointed by the Scottish Football Association a member of the selection committee.

Glasgow

Cockburn & Co., Ltd., chemists, are to open new premises at 113 Hope Street.

Since our educational number appeared, we have received the new prospectus of the School of Pharmacy of the Glasgow Royal Technical College. Classes are held for the Qualifying and Major examinations; fee, 31*l.* 10*s.* a session. The new lecturer in pharmacy and materia medica is Mr. J. P. Todd, Ph.C.

Coming Events

Saturday, September 3

The Confectioners', Bakers' and Allied Traders' Exhibition and Market, Royal Agricultural Hall, London, N. 1. Opening day from 10 A.M. to 5 P.M., other days to 8 P.M. Closing date, September 9.

Thursday, September 8

Manchester Pharmaceutical Association, Council Chamber, Holdsworth Hall, Deansgate, at 8.30 P.M. Discussion on "The Dangerous Drugs Act," introduced by Mr. W. Kirkby, M.Sc., Ph.C.

French News

(From the "C. & D." Paris Correspondent.)

PARAFFIN FROM LINSEED OIL.—According to a paper by M. Mailhe, recently read before the Academy of Sciences, when the volatile products obtained by depriving linseed oil of its water and hydrogen by catalysis are passed over nickel, aromatic hydrocarbons similar to paraffins are produced.

PARIS SOCIETY OF PHARMACY.—MM. H. Herissey and P. Delaunay read a paper to the Paris Society of Pharmacy on the formation of coumarin in *Orchis purpurea*, *O. militaris* and *O. Simia*. The process is similar to that already indicated by Bourquelot and Herissey (*C. & D.*, 1920, II., p. 79) for *Melilotus officinalis* and *Asperula odorata*. Coumarin does not appear in the fresh plant, but only after pounding or drying. If the entire fresh plant be treated by boiling water or boiling alcohol, extracts containing no coumarin may be obtained. But, on the contrary, the aqueous solutions of these extracts will be found to contain it after hydrolysis by diluted sulphuric acid, when boiling, or by treatment by emulsin. The formation of coumarin would, therefore, seem to result from the decomposition of a glucosidic principle under the influence of acid or emulsin. It should, therefore, not be identical with the "Ioroglossine" of the orchids, for this latter, treated by emulsin, does not give coumarin. M. Hardy's notes on cocaine and Vitali's reactions were read by M. Guerbet. Vitali, he said, had pointed out long ago that atropine heated with one drop of nitric acid until dry, and then treated with an alcoholic solution of potash, gave an intense violet hue. Some authors state that cocaine gives the same reaction. M. Hardy shows that such is not the case with pure cocaine. But with isatropylcocaine (an impurity often found in commercial cocaines) the reaction is produced. Isatopyl cocaine is particularly dangerous, and the Codex specifies a test for its research. But the Codex test is not specially characteristic of this alkaloid and does not allow it to be distinguished from cinnamylcocaine, benzoylegonine, tropacocaine, all sometimes found in impure cocaines. M. Hardy, therefore, proposes to add Vitali's reaction to the existing Codex tests.

THE CLANDESTINE TRAFFIC IN NARCOTICS.—The serious consequences to pharmacists resulting from even a trivial neglect of the regulations dealing with the sale of narcotic drugs enumerated in Table B of the French law are emphasised in an interesting article contributed by M. Bogelot, a well known French lawyer and expert in pharmaceutical legislation, to the Bulletin des Sciences Pharmacologiques (No. 7, 1921). Scarcely a week passes, he writes, without the tenth chamber of the law courts having to devote three days to cases of "traffic in narcotics," and the punishments inflicted are extremely severe. Several of the penalties inflicted, he states, are certainly not justified. Almost all these cases begin with the arrest of the consumer, or of some *chasseur* of a restaurant caught in the act of selling the drug. The arrest of other persons follow, including very often some pharmacist, who has either been too ready to oblige a customer, or has failed to stop an abuse by not keeping his registers in proper order. A theft of 5 gm. of morphine, cocaine, or heroin, by the successive dilutions with bicarbonate of sodium which it undergoes at the hands of the various persons through which it passes, becomes in the end 300 or 400 gm. Among the cases recently tried, one pharmacist was condemned to fifteen months' imprisonment, and two others to two years, in addition their businesses were compulsorily closed. The third escaped with a fine of 3,000 fr., which, in view of the fact that all fines are subject to increases, amounted actually to 10,000 fr.; his sole transgression consisted in not keeping his registers in order. The court did not accede to the public prosecutor's demand that in addition to the fine his pharmacy should be closed for eight days, which would have entailed to him a loss of about 100,000 fr. M. Bogelot concludes by emphasising the necessity of adhering strictly to the letter of the law, and particularly of keeping carefully all prescriptions calling for narcotics, in addition to seeing that they are properly drawn up.

Scandinavian News

THE NORWEGIAN PHARMACEUTICAL ASSOCIATION has addressed a memorandum to the finance and customs department drawing attention to the fact that certain specifically-named foreign medicines, the sale of which is permitted only to pharmacists, are being sold to dealers, and are also coming into the country in packages addressed directly to the users, passing through the customs as "soap," or as "skin cream." The department is reminded of the fact that since these preparations are *de facto* remedies, their importation is restricted to wholesalers and pharmacists, by virtue of their special permission to import medicines.

FORBIDDEN IMPORTS.—The director of the Norwegian civil medical department, in a circular issued to all pharmacists, draws attention to the fact that Norwegian pharmacists are receiving from foreign firms offers to supply prepared drugs and official preparations, such as extracts, pills, etc., importation of which is forbidden by paragraphs 11 and 12 of the Pharmacopœia. Paragraph 11 deals with the drying, cutting, powdering, etc., of official drugs, for which instructions are given, and such manipulations—i.e., the cutting or powdering of drugs, is to be undertaken in comparatively small amounts at a time, and it is forbidden to order them in this finished form from abroad. Paragraph 12 requires that "all medicinal products for the preparation of which a formula is included in the Pharmacopœia must be made up in a pharmacy in the country." The effect of these provisions is that only entire drugs may be imported into Norway.

PHARMACEUTICAL SPECIALITIES.—The Swedish regulations dealing with pharmaceutical specialities require the disclosure of the contents on each package, while the wholesale and retail prices are based on the drug-tariff charges, as approved by the Swedish Pharmaceutical Society. Recently the State pharmaceutical laboratory undertook a control analysis of a well-known German speciality, declared to be a "superfatted soap prepared according to a German patent," in addition to stating the amounts of salicylic acid, rectified oil of turpentine, and "pomad." present. The analysis showed it to consist of yellow vaseline, salicylic acid, aluminium silicate containing iron, and oil of turpentine. The preparation, therefore, did not comply with the regulations as regards its description, and the highest cost price, inclusive of tube and carton, of the ingredients, when calculated in accordance with the regulations, would amount to about 1.85 kr. The wholesale price has been in consequence reduced to 2.25 kr., and the retail price to 3.95 kr.

A TAX ON TURNOVER.—In the Norwegian budget for the current financial year a special tax on the turnover of pharmacies has been introduced, the proceeds of which are to defray expenses incurred by the State in the administration of pharmaceutical affairs. The proposed scale has been discussed at length, and objections have been raised by the profession, several counter-proposals having been submitted. Owners of pharmacies in the north drew attention to the higher costs of freight on goods, an objection which was met by the statement that businesses in the north are able to obtain younger assistants than those in the south, while the latter are faced by higher working costs. A proposal to base the tax on the net profits, instead of on the total turnover, was also rejected. The following scale of taxation has been adopted. The first 25,000 kr. are not taxed. Of the sum remaining 25 per cent. is further deducted, as representing the turnover on articles not being the monopoly of the pharmacist. Of the amount remaining a progressive tax, beginning with 1 per cent. and rising to 8 per cent. is to be levied on every 5,000 kr. Thus a pharmacy with a total turnover of 100,000 kr. annually will pay a contribution of 3,100 kr., and on a turnover of 800,000 kr. the tax represents 45,100 kr. The Government estimates that this tax will bring in a total of 350,000 kr., which is to be expended as follows: Contribution to special fund, 305,000 kr.; administration costs of fund, 1,200 kr.; assistance to smaller pharmacies, 2,400 kr.; grants to the teachers of the pharmaceutical institute, 10,000 kr.; grants to the students of pharmacy for instruction in quantitative analysis, 21,400 kr.; contribution to the fund for the assistance of pharmacists and their dependents, 10,000 kr.

NORWEGIAN COD-LIVER OIL.—A noteworthy article appears in the "Norges Handelstidende" of August 22 in relation to Norwegian cod-liver oil and the question as to whether limitation should be placed on the facilities available to foreigners to produce the oil in that country. The newspaper states that during the past year many new methods, partly Norwegian and partly foreign, have been devised for the production of cod-liver oil, and that there is reason for believing that the processes will become of great importance so that Norwegian cod-liver oil may be an even better known product. Meanwhile, it is known that both English and American firms are settling themselves on Norwegian soil to a greater extent, and with large modern installations are extending their production in that country. It seems that foreign trade circles are more optimistic concerning the cod-liver oil industry than those in Norway, but there is perhaps only one opinion—namely, that the Norwegians should control both the production and the sale of the product. The question has now been raised in Norwegian trade circles as to whether the Government should not do something to prevent foreign firms, having unimpeded facilities, undertaking extensions and laying down new installations. In the opinion of the newspaper, the Government authorities ought to pay attention to these circumstances, and it is said to be worthy of consideration as to whether a tax or export duty should not be imposed on foreign firms so that the development may not go the wrong way. It is added that the quantity of cod-liver oil produced in Norway by foreigners already forms about one-fourth of the total output in the country, and that the facilities afforded to foreigners in other countries are not so easy as in Norway—Newfoundland, for instance, stipulating that even natives must apply to the governor for a licence to produce cod-liver oil.

PROFITS CONTROVERSY.—In seeking an increase in salaries on account of the rise in the cost of living, the Swedish Association of Pharmaceutical Assistants drew attention to the increased profits resulting from the higher charges in the revised drug tariff. To substantiate their contention they adduced fifty prescriptions, giving the average price of each when charged for according to the drug tariffs in force in 1914, 1919, and 1920, the resulting prices being as follows:

	Amounts in Öre		
	1914	1919	1920
Cost of ingredients	104	195·2	216·8
Dispensing fee	59·8	69·8	163·5
Price to patient	163·8	295	405·3

A Swedish pharmacist ("Svensk Farmaceutisk Tidskrift," August 20) points out that the fifty prescriptions selected savour too much of being specially selected for the purpose. To controvert the figures adduced by the assistants' association, he gives the corresponding charges for one hundred prescriptions taken in the order in which they were presented for compounding:

	Cost of Ingredients	Dispensing Fee	Price to Patient
Drug tariff of 1914 ...	99·8	33·9	133·7
" " 1919 ...	162·7	42·8	205·5
" " 1920 ...	174·8	108·8	308·6
" " 1921 ...	150·9	108·8	294·7

The above statistics are interesting as showing the increased costs of the ingredients entering into prescriptions since the war, as well as the slight decline in prices during the present year, which is reflected in the lower costs for drugs figuring in the last drug tariff. The writer points out that according to the assistants' figures the increased profit on the higher charges for compounding in 1920, compared with 1919, averaged 93.7 öre, whereas according to his statistics this increase only averaged 66 öre per prescription. Placing the total number of prescriptions compounded annually in Sweden at 5,000,000, according to the assistants the owners would have realised an increase of profits (if the charges for compounding are to be regarded as "net profits") amounting to 4,685,000 kr., whereas his calculations place this increased revenue at only 3,300,000 kr.

Colonial and Foreign News

Export of Pharmacists.—In view of the prevailing conditions in the pharmaceutical profession in Hungary, arrangements have been made whereby 150 unmarried pharmaceutical assistants will shortly emigrate to the United States, where positions are awaiting them. If the experiences of these men are favourable, a further contingent of 150 will follow.

Narcotic Drugs in Persia.—The Persian Government has issued a decree, dated May 10, whereby persons wishing to import opium, morphine, and its derivatives (such as codeine, heroin, dionin, narceine, thebaine, papaverine), cocaine, its derivatives and compounds containing cocaine, eucain, novocain, stovain and saccharin are required to obtain an import licence from the Persian Minister of Public Health. The maximum amount which may be imported is limited to 100 grams of each of these substances. The manufacture and sale of alcohol have recently been monopolised by the Persian Government, and in conjunction with this step it is also proposed to make the sale of narcotic drugs a Government monopoly, with the ultimate object of undertaking their manufacture in the country, so far as practicable.

State Aid for Pharmacists.—The department of public health of the Italian Ministry of the Interior has recently issued a circular to the prefects of all the provinces of the kingdom, in reference to the frequently urged claims of several pharmaceutical associations that pharmacists in rural districts, whose profits are inadequate to provide a livelihood, should receive a State or parochial subsidy. In the circular the local authorities are requested to investigate the conditions in question, and to propose suitable cases in which the grant of pecuniary assistance would appear justifiable. As a general rule, it is laid down that this assistance is only to be granted provided the recipient is the only pharmacist practising in the parish, and that the profits derived from the business are actually insufficient and are likely to prejudice the further provision of pharmaceutical services in that locality. While welcoming this step, the pharmaceutical profession warns its members against the possibility of this otherwise beneficial measure being utilised to favour the municipalisation of pharmacies.

Germany's Progress to Recovery. — Two recent Government decrees show that Germany is well on the way towards a return to normal conditions. The first is the removal of the restrictions on the use of camphor, introduced February 16, 1917, and the second decree, issued by the Hessian and Prussian Governments, refers to the use of a number of substitutes in the preparation of official compounds during the war, in consequence of the shortage or absence of a number of raw materials. Requirements of the Pharmacopœia must now be strictly adhered to, and inspectors of pharmacies are enjoined to see that this order is complied with. It is pointed out how this ruling will scarcely affect the prices of the preparations in question, but one German pharmacist does not share this view. Wishing to prepare his official ointments with genuine lard, as prescribed, he found that the market price for lard was 18 marks for 500 grams. The drug tariff allows him to charge only 18.20 marks for 500 grams of lard : therefore he has decided to continue the use of the substitute, while asking the tariff commission to disclose the name of a seller of lard at a price enabling him to draw the profit due to him according to the base on which the tariff prices are calculated.

The new Spanish regulations regarding the manufacture, importation, and sale of pharmaceutical specialities stipulate that all such products must be prepared by a qualified pharmacist, and in the case of specialities manufactured abroad the application for registration in Spain must be accompanied by an official statement, duly authenticated by a Spanish consul, that the manufacturer is a qualified pharmacist in the country of origin. This has been the subject of considerable discussion among Spanish pharmacists, and at the forthcoming annual meeting of the National Pharmaceutical Association in San Sebastian on September 7 to 10 one of the principal matters to be discussed is a proposal to the effect that all specialities, including foreign preparations, should be exclusively manufactured in Spain by pharmacists. The other subjects include a proposal to create public analytical laboratories, in which pharmacists would undertake, free of charge, the analysis of milk, wines, etc. This step is suggested as a means of promoting a closer contact with the people, and to destroy the "calumnious legend" that pharmacists are imbued with a purely mercantile spirit. It is also proposed to fix the minimum salary of pharmaceutical assistants at 6,000 pesetas (215*l.*) per annum.

Entrants to Pharmacy Limited.—The impossibility of providing a livelihood for the excessive number of pharmacists, and also what steps should be taken to prevent a further overcrowding of the profession, are at present exercising the minds of Austrian pharmacists. This abnormal state of affairs is attributable to the collapse of the Austro-Hungarian monarchy. In the first place, a number of young men entered the profession at the conclusion of hostilities who, in other circumstances, would have embraced different professions; secondly, in the break-up of the old empire, a large number of pharmacists, confronted with the choice of a nationality—i.e. of becoming a citizen of one of the succession States or of Austria—selected the latter. At a meeting arranged between representatives of the National Pharmaceutical Association, the Association of Pharmaceutical Assistants, and members of the pharmaceutical section of the Board of Health to discuss these questions, the professional representatives urged the Government to issue a by-law closing the pharmaceutical profession to all would-be entrants for a certain period, or, failing this drastic remedy, to limit entry solely to sons of pharmacists. The Government's representative pointed out that it would be illegal to forbid citizens from entering any profession; however, in view of the special circumstances, the Government would consider the advisability of limiting the number of entrants for one year, it being suggested to adopt as the maximum number a figure representing 10 per cent. of the public pharmacies in the Republic.

Pharmaceutical Society of the Orange Free State

A General Meeting was held at Vickers' Buildings, Bloemfontein, on August 3. There were present Mr. Taylor (President), Mr. Weller (secretary and treasurer), Messrs. Carter, Fyfe, and Reid (members), Messrs. Hurst, Muir, and Dr. Blok (visitors). With regard to hours of business the minority promised to adhere to the hours usually observed in town. Mr. Roytowski's letter in regard to approaching Dr. Mitchell (when he visits Bloemfontein) regarding reciprocity was discussed at some length. The secretary was instructed to write Mr. Roytowski stating "Dr. Mitchell hopes that the Medical and Pharmacy Bill will come forward in the September Parliamentary session, then your position will be legalised. Nothing can be done in the matter except by Parliament." Mr. Fyfe proposed Dr. Blok as a member of the Society. Mr. Taylor seconded, and Dr. Blok was unanimously elected. There was a lengthy discussion on the writing of code or cypher prescriptions. Mr. Fyfe proposed and Mr. Reid seconded a motion that the secretary write to the Medical Association of the O.F.S., stating that the writing of code or cypher prescriptions was fully discussed and the Society would like to know the opinion of the Association on the matter, and whether such prescriptions are in accordance with the ethics of the medical profession. Mr. Reid proposed the discussion of the standardisation of Dutch medicine formulas at the next meeting. The secretary was instructed to write to the City Council and the P.W.D. inquiring the procedure adopted in obtaining supplies of disinfectants and chemical requisites. The President congratulated Mr. Fyfe on his appointment as managing director of the Central Pharmacy, Ltd. A vote of condolence on the sudden death of the late Dr. Baumann was passed, all the members present upstanding.

Lemonade Powder

Before the Kingston-on-Thames Borough Police Court on August 31, Durbin's Drug Stores, Ltd., and Mr. A. E. Bird, manager, Market Place, Kingston-on-Thames, were summoned at the instance of the Surrey County Council, under the Sale of Food and Drugs Act, for selling lemonade powder adulterated with tartaric acid, and under the Merchandise Marks Act for applying a false trade description to the same article by describing it as "Messina Lemonade, made entirely from Fresh Lemons." Mr. Alfred Higgs, who was one of the magistrates on the Bench, asked counsel if he had any objection to his assisting in adjudicating in the matter, as the defendants were his trade competitors. In reply, counsel said he had no objection whatever, for he felt he had a magistrate who thoroughly understood the circumstances of the case. Mr. E. Hinks, F.C.S., public analyst for the County of Surrey, proved his certificate, which stated the composition of the lemonade powder was tartaric acid, 49.2 per cent.; cane sugar, 49.7 per cent.; moisture, 1.1 per cent.; artificial colouring matter and flavouring essence, traces. He observed that the acidity was due to tartaric acid. Citric acid, to which the acidity of lemons was due, was absent. The colouring matter was an artificial dye. The flavouring essence might be due to an essence of lemon. The article would be more correctly described as being made almost entirely from materials not derived from lemons. Mr. Walter Frampton, instructed by the Chemists' Defence Association, Ltd., appeared for the defendants. He first dealt with the summons under the Sale of Food and Drugs Act. Lemonade was, he said, a well-known commercial article, and the recipe published in "Pharmaceutical Formulas" and the domestic book known as "Enquire Within on Everything" gave practically the same ingredients as the lemonade powder in question, which was prepared from tartaric acid, a derivative of grapes, instead of lemons; one of the objects in using tartaric acid was that citric acid was more moist, so that on exposing for sale would become damp and pasty. Similar powders had been known for more than half a century, and this was the first case in which any objection had been raised to this name. It was perfectly harmless and made a delicious cooling drink, and he contended that the purchaser was not prejudiced in the article supplied to him. He asked for Messina lemonade and was supplied with the article in question, which was flavoured with oil of lemon obtained from Messina. Continuing, he dealt with the summons under the Merchandise Marks Act. He took exception to the wording, which stated that defendant "did unlawfully, and with intent to defraud, apply a false trade description" to the lemonade powder. This expression was far beyond that mentioned in the Act; further, the proprietors are liable under the Act, and not the servant who sells. He admitted it was rather difficult for him to explain the description "Made entirely from Fresh Lemons." The Bench retired to consider the case, and on returning to court the Mayor, Dr. Finny, announced that the Bench had decided to fine Durbin's Drug Stores, Ltd., 20*l*. and 10*l*. 10*s*. costs for the summons under the Merchandise Marks Act. The other summonses would be dismissed. Mr. Frampton applied for costs, but was refused.—Before the same Court, Burgess Martin, of Vestry Road, Camberwell, London, were summoned, at the instance of the Surrey County Council, for aiding and abetting George Batten, Cambridge Road, Norbiton, in selling, to the prejudice of the purchaser, lemonade powder which was adulterated with tartaric acid and artificial colouring matter; also, under the Merchandise Marks Act, for applying a false trade description to the same article. Mr. E. Hinks, F.C.S., public analyst for the County of Surrey, proved his certificate, which stated the lemonade powder was prepared from tartaric acid, 4.1 per cent.; sugar, 94.4 per cent.; moisture, 1.5 per cent.; artificial colouring matter and flavouring essence, traces. He observed that the article was not prepared from lemon juice. The acidity was due to tartaric acid; there was no trace of citric acid that could be detected. The colouring matter was not that of lemon, but an artificial dye. The flavouring essence might be prepared from lemon. Mr. Walter Frampton appeared for defendants. He said Burgess Martin were a firm who mainly supplied flour and cakes mixtures; the manufacture of lemonade powder was a side-line. Continuing, he said this was a little different case to the last, as the proprietor was not a chemist, but had purchased the business over twenty years ago, and that the same recipe and labels had been used by him ever since without complaint. The Bench convicted defendant on the summons under the Merchandise Marks Act and fined him 20*l*. and 10*l*. 10*s*. costs. The other summons under the Sale of Food and Drugs Act was withdrawn by the prosecution.

New Companies

R. Orme & Co., Ltd. (P.C.).—Capital, 30,000*l*. Objects: To take over the business of grocers and general provision dealers, chemists, druggists, etc., carried on at Bakewell and Matlock as "R. Orme & Co." R.O.: The Square, Bakewell.

Burlington Industrial Laboratories, Ltd. (P.C.).—Capital, 1,000*l*. Objects: To carry on the business of analytical, consulting, and manufacturing chemists, dealers in all kinds of chemicals, drugs, by-products, and apparatus, etc. Solicitor: J. J. McIntyre, 401-3 Birkbeck Chambers, Holborn, London, W.C.

J. P. Dawe & Co., Ltd. (P.C.).—Capital, 500*l*. Objects: To acquire the business of a chemist and druggist carried on by J. B. Davidson at 81 Malden Road, Kentish Town, N.W. The permanent directors are: R. J. P. Dawe and Ada H. Dawe, 38 Junction Road, Holloway, N. R.O.: 81 Malden Road, Kentish Town, London, N.W.

Torbay Patents, Ltd. (P.C.).—Capital, 2,000*l*. Objects: To carry on the business of manufacturers and vendors of a patented device of R. Howarth for (*inter alia*) inducing sleep. The first directors are: C. F. Swift (managing director), J. Tearle, R. Howarth, H. G. L. Hallewell, and J. F. Jenkins. R.O.: 5 Fleet Street, Torquay.

G. Clarkson, Ltd. (P.C.).—Capital, 200*l*. Objects: To take over the business of a pharmacy and drug-store proprietor carried on by G. Clarkson at 26 Wortley Lane, Leeds. The first directors are: G. Clarkson and Florence Clarkson, 10 Alcester Road, Leeds; and F. Lockwood, 25 Station Road, Golcar, near Huddersfield. R.O.: 26 Wortley Lane, Leeds.

Timmis & Ingham, Ltd. (P.C.).—Capital, 4,000*l*. Objects: To carry on the business of chemical manufacturers and dealers, chemists, druggists, drysalters, patent-medicine manufacturer and vendors, opticians, manufacturers of and dealers in drugs, chemicals, proprietary articles, perfumes, toilet-preparations, soaps, photographic apparatus and materials, etc., and to acquire the business carried on at 102 High Road, Ilford, as "Timmis & Ingham." The first directors are: G. Ingham, 102 High Road, Ilford, chemist's assistant; and C. H. Cooper, 199 Balfour Road, Ilford, pharmacist. R.O.: 102 High Road, Ilford.

Business Changes

Mr. C. F. Woodward, chemist and druggist, has acquired the business of Mr. R. Banbury, chemist and druggist, 186 Lavender Hill, London, S.W. 11.

J. Taranto & Fils, opium and drug exporters, Smyrna, have acquired the import and export business of Hochman & Co., Ltd., which will be under the management of M. Is. Barmaimon.

The Talbot Wilson Chemical Co. (proprietor, Mr. W. W. N. Beadon, chemist and druggist), has removed from 3 Kew Foot Road, Richmond, Surrey, to Lansdowne Road, South Lambeth, London, S.W. 8.

Mr. E. Skues, chemist and druggist, has purchased the business of Mr. R. Banbury, chemist and druggist, 390 Walworth Road, London, S.E. 17, and is carrying it on under the style of Barkers Cash Chemists.

Dangerous Drugs Act

Home Office Notice

The following notice issued by the Home Office has appeared in the Press this week :

The Home Secretary gives notice that the Regulations made by him under this Act come into force on Thursday, September 1.

On and after that date no person may have in his possession any morphine, cocaine, or heroin, or any preparations containing at least *0.2 per cent. (one part in 500) of morphine or 0.1 per cent. (one part in 1,000) of heroin or cocaine*, or any medicinal opium, unless he is licensed by the Home Office or is otherwise authorised by the Regulations or by the Home Office, or unless it is supplied on a prescription given in accordance with the conditions specified in the Regulations. A few preparations (including Dover's powder. and gall and opium ointment) are exempted from the operation of the Regulations.

The Regulations also continue with modifications the existing restrictions in regard to raw opium which have been in force under the Defence of the Realm Act.

Copies of the Regulations can be obtained through any bookseller or directly from His Majesty's Stationery Office.

Commentary on the Regulations

IV

THE compilation of the percentage contents of preparations containing "dangerous" drugs has been so important that Regulation 8, dealing with the marking of packages or bottles, is likely to be forgotten. It is clear that the Home Office regard the supply by pharmacists of the drugs to doctors for their own dispensing as coming within their right of sale, and therefore chemists need no licence. The interpretation published by their authority would be a sufficient answer in any case arising, but it could hardly arise, as the prosecutor would be under the authority of the interpreter. Whether the chemist must comply with the Pharmacy Acts and insist on the signature of the doctor in the poison-book can only be settled when the Pharmaceutical Council has considered the matter. The signed order of the doctor and the chemist complying with the need of verification for such authority will, however, be necessary even when an official statement by the Pharmaceutical Council has been made. Meantime the chemist should carry on, observing the D.D.A. Regulations.

Regulation 8

(1) No person shall supply ["dangerous" drugs] unless the package or bottle is plainly marked with the amount of drug in the package or bottle.

(2) No person shall supply any preparation or admixture . . . [of any drug] coming within these Regulations unless the package or bottle is plainly marked—

(*a*) In the case of a powder, solution, or ointment, with the *total amount* thereof in the package or bottle, and the *percentage of the drug* in the powder, solution, or ointment.

(*b*) In the case of tablets or other articles, with the amount of drug in each and number of articles in the bottle.

[This Regulation shall not apply to dispensed medicines.]

It will be necessary, therefore, in supplying a Winchester of tinct. opii, for the label to convey the information on lines somewhat as follows :

Tincture of Opium
POISON
Containing 1 per cent. Anhydrous Morphine.
5½ lb. net.

We suffer here, as elsewhere, from the ambiguity of language to be expected from laymen in dealing with technical matters. Regulation 8 (1) speaks of the amount of drug in the package or bottle, and further refers in 8 (2*a*) to the total amount—and the percentage. This may mean the total amount of morphine in the bottle (in this case 385 gr.), or it may mean the amount of opium represented. This Regulation will apply to central depôts supplying branch shops in the same way as to all wholesalers and chemists supplying doctors, and to all dispensers in hospitals sending stocks up to wards, since the concession does not exempt this marking. An example of the label would be as follows :

Injection of Morphine
POISON
2½ per cent. morph. tart. Total quantity, ʒj. or 11 9/16 gr.

We give in this issue a compilation from the lists of some of the chief makers of pharmaceutical preparations. The list does not profess to be exhaustive, but includes most of the preparations of which we have the necessary details. It will be recognised that without a knowledge of the weights of the pills, tablets, etc., it is not possible for us to give the percentage compositions. The following table, however, will give the percentages when the weight is known of articles from 1 lb. to 1 grain.

WEIGHT/WEIGHT IN GRAINS OR PARTS THEREOF
1 in 1,000 to 1 in 100 or 0.1 to 1 per cent.

Per cent.	1 lb.	½ lb.	4 oz.	1 oz.	¾ oz.	½ oz.	¼ oz.	40 gr.	30 gr.	20 gr.	5 gr.	1 gr.
0·1	7	3½	1¾	7/16	21/64	7/32	7/64	1/175	1/233	1/350	1/1400	1/7000
0·2	14	7	3½	7/8	21/32	7/16	7/32	1/175	1/116	1/175	1/700	1/3500
0·3	21	10½	5¼	1 5/16	63/64	21/32	21/64	1/58	1/77	1/116	1/466	1/2333
0·4	28	14	7	1¾	21/16	7/8	7/16	2/87	1/58	1/87	1/350	1/1750
0·5	35	17½	8¾	2 3/16	1 41/64	1 3/32	35/64	1/35	1/46	1/70	1/280	1/1400
0·6	42	21	10½	2⅝	1 31/32	1 5/16	21/32	1/29	1/38	1/58	1/233	1/1166
0·7	49	24½	12¼	3½	2 19/64	1 17/32	49/64	1/25	1/33	1/50	1/200	1/1000
0·8	56	28	14	3½	2⅝	1¾	7/8	2/43	1/29	1/43	1/175	8/875
0·9	63	31½	15¾	3 15/16	2 61/64	1 31/32	63/64	1/19	1/25	1/38	1/155	7/777
1·0	70	35	17½	4⅜	3 9/32	2 3/16	1 3/32	2/35	1/23	1/35	1/140	1/700

Where the last figure is not divisible evenly the next downward is taken.

OTHER CALCULATIONS.

In order to assist our readers who are in doubt about their own preparations an explanation will help. Numerous queries have reached us asking somewhat as follows : "I have a cough linctus containing a pint of tr. opii B.P. in 1 gallon of a mixture of glycerin, syrup, and water. I find its s.g. is 1.25. Does it come within the Regulations?" The process is : Multiply 1 gall. water or 10 lb. by 1.25 s.g. = 12.5 lb. A pint of tr. opii which has a s.g. 0.91 = 20 × 0.91 or 18.20 oz. weight ∴ 12.5 lb. contain 18.20 oz. tr. opii and 18.20 ÷ 12.5 = 1.46 oz. nearly per lb. Since the percentage is 1 and is anhydrous morphine we have 4.375 gr. per oz. and 1.46 × 4.375 = 6.39 gr. present approx. in 1 lb., or 7,000 gr. Push the figures back one decimal place and divide by 7, which will give the percentage = 0.0913 approx., so that it is no longer a "dangerous" drug.

TABLE OF SPECIFIC GRAVITIES
of preparations containing "dangerous" drugs :

Chlorodyne, B.P.C.	1.17
Elixir acetomorph. et terpin.	1.22
,, heroin.	1.164
,, pini co.	1,01
,, terpheroin co.	1.25
Ext. opii liq.	0.99
,, cocæ liq.	1.013
,, ,, ,, miscib.	1.058
Glyc. acetomorph., B.P.C.	1.25
,, heroin.	1.25
Liq. opii sed.	0.996
,, morph. acet.	0.977
,, ,, hyd.	0.977
,, ,, sulph.	0.977
Tr. camph. co.	0.916
,, chlorof. et morph.	1.24
,, ,, ,, ,, co.	1.015
,, cocæ	0.969
,, opii	0.908
,, ,, '98	0.959
,, ,, aquos.	1.03
,, ,, ammon.	0.898
,, ,, ,, '98	0.878

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Supplementary Percentage Table

A Continuation of the Table Printed in the *C. & D.*, August 13, p. 58, showing the Proportions of "Dangerous" Drugs in Various Official and Unofficial Pharmaceutical Preparations.

[*The preparations printed in italics are outside the Dangerous Drugs Act.*]

Cocaine

D.D.A. limit 0·1 per cent. (1 in 1,000), equivalent to 0·11 per cent. of cocaine hydrochloride.

Allen & Hanburys' Preparations:	Per cent.
Atomol spray solutions	0·4 to 1·0
Azoule hypodermic solutions:	In each
adrenalin and cocaine	$\frac{1}{6}$ gr.
cocain. hydrochlor.	$\frac{1}{10}$ to $\frac{1}{2}$ gr.
hydrarg. succin. et cocain.	$\frac{1}{6}$ gr.
obtundent compound (cocaine)	$\frac{1}{13}$ gr.
	Per cent.
Triple valerianate (also contains 0·02% morph. valer.)	0·005
Hypoderms:	In each
cocaine hydrochlor.	$\frac{1}{30}$ to 1 gr.
" " (veterinary)	1 gr. and 2 gr.
Lamels:	
ophthalmic cocain. hyd.	$\frac{1}{30}$ and $\frac{1}{200}$ gr.
homatrop. et cocain. hyd.	$\frac{1}{100}$ gr.
Pastilles:	
Numbers 9A, 24A, 24B, 29A, 29B, 44A, 58A	$\frac{1}{20}$ to $\frac{1}{10}$ gr.
Burroughs Wellcome & Co.'s Preparations:	Per cent.
Adrenalin and cocaine solution	2·0
Cocaine cream	10·0
	In each
Enule cocaine hydrochlor.	$\frac{1}{2}$ gr.
	Per cent.
Epicaine	2·0
Eye-drops	0·5
Hemisine and cocaine solution	2·0
Hypoloid Products:	
adrenalin and cocaine	2·0
cocaine hydrochlor. (0·01 and 0·02 in each)	1·0 and 2·0
hemisine and cocaine	2·0
epicaine	2·0
Tabloid Hypodermic:	In each
cocaine hydrochlor.	$\frac{1}{4}$ to $\frac{1}{2}$ gr.
anæsthetic co. A. (cocain. hyd.) (also morph. hyd. $\frac{1}{20}$ gr.)	$\frac{1}{10}$ gr.
anæsthetic co. B. (cocain. hyd.) (also morph. hyd. $\frac{1}{20}$ gr.)	$\frac{1}{5}$ gr.
cocaine hydrochlor.	0·01 to 0·03
" " (veterinary)	2 gr. and 0·25 gram
Tabloid Ophthalmic:	
cocaine hydrochlor.	$\frac{1}{20}$ to $\frac{1}{200}$ gr.
Tabloid Ophthalmic Veterinary:	
cocaine hydrochlor.	$\frac{1}{100}$ to $\frac{1}{400}$ gr.
Tabloid Pastilles:	
cocaine hydrochlor.	$\frac{1}{10}$ gr.
Soloid Products:	
boric acid and cocaine	0·05 and 0·1 gram
cocaine hydrochlor.	$\frac{1}{2}$ to 5 gr.
Parke, Davis & Co.'s Preparations:	Per cent.
Ampoules:	
codrenine	2·0
locosthetic	0·75
Cocaine hydrochlor. solutions	2 to 10·0
Cocaine oleate	5·0
Codrenine	2·0
Compressed tablets:	In each
cocaine hydrochlor.	$1\frac{3}{12}$ gr. and $2\frac{3}{10}$ gr.
nasal "B"	$\frac{1}{4}$ gr.
voice	$\frac{1}{50}$ gr. to $\frac{1}{100}$ gr.
	Per cent.
Elixir coca	0·125
Chocolate-coated tablets:	In each
creosote compound	$\frac{1}{20}$ gr.
Hypodermic tablets:	
adrenalin and cocaine hyd.	$\frac{1}{6}$ gr. to $\frac{3}{4}$ gr.
cocaine hydrochlor.	$\frac{1}{8}$ gr. to $\frac{1}{2}$ gr. / 0·01 to 0·03 gram
Hypodermic tablets, veterinary:	
adrenalin and cocaine hyd.	2 gr.
cocaine hydrochlor.	1 gr. to 2 gr.
	Per cent.
Locosthetic	0·75
Oculets:	In each
cocaine hydrochlor.	$\frac{1}{200}$ gr. to $\frac{1}{20}$ gr.
Pills:	
phosphorus and cinchon. co.	$\frac{1}{50}$ gr.
sedative (Mann)	$\frac{1}{100}$ gr.
Suppositories:	
adrenalin co.	$\frac{1}{2}$ gr.

Diamorphine

D.D.A. limit 0·1 per cent. (1 in 1,000), equivalent to 0·109 per cent. diamorphine hydrochloride.

[*The hydrochloride is used in all the following preparations.*]

	In each
A. & H. Azoule (heroin)	$\frac{1}{8}$ and $\frac{1}{6}$ gr.
pastilles, No. 58A	$\frac{1}{20}$ gr.
B. W. & Co. Tabloid hypodermic, heroin	$\frac{1}{25}$ to $\frac{1}{6}$ gr.
Tabloid heroin	$\frac{1}{25}$ to $\frac{1}{10}$ gr.
P., D. & Co. Compressed tablets:	
terpin. and diamorph.	$\frac{1}{50}$ gr.
" " co.	$\frac{1}{16}$ gr.
tablet triturates	$\frac{1}{24}$ to $\frac{1}{6}$ gr.
Squire's Preparations:	Per cent.
Glycero terperoin	*0·03*
Pastil. terperoin co.	*0·01*
Pastil. terperoin fort.	*0·04*
Terperoin elixir	*0·03*

Morphine (Anhydrous)

D.D.A. limit 0·2 per cent. (1 in 500).

[*The percentages refer to the respective salts, and are not necessarily W/W.*]

Allen & Hanburys' Preparations:	Per cent.
Alopon powder	50·0
" solution	2·0
	In each
" tablets	$\frac{1}{6}$ gr.
" hypodermic tablets	$\frac{1}{3}$ gr.
Azoules:	
alopon (various)	$\frac{1}{3}$ gr. and $\frac{2}{3}$ gr.
hyoscine and morph. hydr.	$\frac{1}{4}$ gr.
morph. tart.	$\frac{1}{6}$ gr. to $\frac{1}{2}$ gr.
" " and atrop.	$\frac{1}{4}$ gr. to $\frac{1}{2}$ gr.
scopolamine and morph.	$\frac{1}{6}$ gr.
triple valerianate (*see* "Cocaine")	
Hypoderms:	
digitalin and morph. sulph.	$\frac{1}{8}$ gr.
morph. salts (various)	$\frac{1}{8}$ gr. to 1 gr.
" " veterinary	1 and 2 gr.
Lamels, morph. and atrop.	$\frac{1}{30}$ gr.
Burroughs Wellcome & Co.'s Preparations:	
Enule Products:	In each
gall and opium	—
morph. hydrochlor.	$\frac{1}{4}$ gr. to 1 gr.
opium extract	1 gr. and 0·05 gram.
Hypoloid Products:	
morph. hydrochlor. (1 and 2 per cent.)	0·01 and 0·02
Tabloid Hypodermic:	
ergotin. cit. and morph. sulph.	$\frac{1}{6}$ gr.
hyoscin. co. and morph. sulph.	$\frac{1}{6}$ gr. to $\frac{1}{4}$ gr.
morph. salts	$\frac{1}{12}$ gr. to 1 gr.
" veterinary	1 to 2 gr.
Tabloid Ophthalmic:	
morphine	$\frac{1}{1050}$ gr.
Tabloid Products:	
morph. hydrochlor.	0·003 and 0·01 gram
" sulph.	$\frac{1}{20}$ gr. to $\frac{1}{4}$ gr.
opium	$\frac{1}{2}$ gr. to 1 gr.
opium tincture	2 m. to 10 m.
Chlorodyne:	
Collis Browne's	—
Freeman's	—
Teasdale's	—
Clayton Aniline Co.'s Preparations:	Per cent.
Pavon ("Ciba")	20·0
Pavon ampoules	*0·066*
Pavon liquid	*0·066*
Pavon tablets (0·004 gram morph. in each)	1·33
Dover's Powder Tablets	—
Kay's Linseed Compound	*0·023*
Nepenthe (Ferris)	0·84
Papine (Battle)	—

Parke, Davis & Co.'s Preparations:	
Ampoules:	In each
morph. sulphate ... ... (1·5 to 3 per cent.)	... $\frac{1}{4}$ gr. to $\frac{1}{2}$ gr.
	Per cent.
Chlor-anodyne	... 6·66
,, ,, veterinary	... 0·91
Compressed Tablets:	In each
anodyne	... $\frac{1}{20}$ gr.
astringent	$\frac{1}{20}$ gr. and $\frac{1}{32}$ gr.
hydrastine co. (morph. acet.) ...	... ... $\frac{1}{32}$ gr.
lead and opium (morphine) ...	... ... $\frac{1}{5}$ gr.
mercuric iodid. etc. (morphine) ...	... $\frac{1}{100}$ gr.
Chocolate-coated Tablets:	
camphor co. tinct. (morphine)	... ...$\frac{1}{148}$ gr.
chlorodyne (morph. hyd.)	... ... $\frac{1}{6}$ gr.
coryza (morph. hyd.)	... ... $\frac{1}{64}$ gr.
diarrhœa (morph. sulph.)	... ... $\frac{1}{15}$ gr.
febricula (morphine)	... ... $\frac{1}{40}$ gr.
sun cholera (morphine)	... ... $\frac{1}{36}$ gr.
Hypodermic Tablets:	
morphine (various)	... $\frac{1}{12}$ to $\frac{1}{2}$ gr.
,, veterinary	... 1 to 2 gr.
Local anæsthetic (*see* "Cocaine")	
Oculets:	
zinc and morph.	... $\frac{1}{250}$ gr.
Pills:	
morphine (various)	... $\frac{1}{50}$ to $\frac{1}{3}$ gr.
neuralgic	$\frac{1}{20}$ gr. to $\frac{1}{200}$ gr.
,, idiopathic	$\frac{1}{10}$ gr. and $\frac{1}{20}$ gr.
opium and extract with other drugs	$\frac{1}{20}$ gr. to $\frac{1}{640}$ gr.
Suppositories:	
morphine	$\frac{1}{4}$ gr. and $\frac{1}{2}$ gr.
Tablet Triturates:	
morphine (various)	... $\frac{1}{6}$ gr. to $\frac{1}{2}$ gr.
opium (morphine)	$\frac{1}{40}$ gr. to $\frac{1}{10}$ gr.
Squire's Preparations:	Per cent.
Liq. meconicus	... 1·0
Woolley, Sons & Co.'s Preparations:	
Akolethe	... 0·95
Chlorodyne	... 0·92
Liq. opii sed.	... 1·0

Supplying "Dangerous" Drugs to Doctors

Mr. G. A. Mallinson, secretary of the Retail Pharmacists' Union, following up the letter from the Home Office published in The Chemist and Druggist (August 6, p. 55), sends us the following correspondence he has had with the Home Office regarding the supply of drugs to authorised persons in what might be regarded as wholesale transactions :

From Mr. Mallinson to the Home Office, 17/8/21.

I am constantly receiving inquiries regarding the position of pharmacists with reference to sales of drugs coming within the Dangerous Drugs Regulations to doctors, dentists, veterinary surgeons, and other authorised persons; also to hospitals, nursing homes, and public institutions. Almost every pharmacist is called upon at times to supply some of the above persons or institutions with a portion of their requirements, and considerable inconvenience and trouble will be caused throughout the country to doctors, dentists, veterinary surgeons, nurses, and patients in institutions unless pharmacists are at liberty to carry on their business as hitherto, subject to the requirements regarding registration provided by the Regulations. The difficulty arises through the possibility of Regulation 10 being interpreted to mean that the pharmacist may not supply authorised persons or institutions with drugs required for the purpose of treating patients.

It would be a serious inconvenience that doctors, dentists, or other authorised persons should be unable to procure through a pharmacist any supplies required by them. This matter is extremely important, as a large number of our members regularly supply doctors, dentists, veterinary surgeons, hospitals and other institutions with medicines, etc., required for use in treating patients. May I most respectfully suggest that this difficulty may be overcome, and a large amount of friction avoided, by the issue from the Home Office of a statement that the general authorisation in Regulation 10 covers *all* a pharmacist's transactions with authorised persons, public institutions, and nursing homes as carried out at present in his retail establishment? This would clear away all doubt. An announcement on the lines I have indicated would prevent the necessity of pharmacists refusing emergency supplies to doctors, dentists, veterinary surgeons, and institutions. It would also assure pharmacists generally that the Department have no desire to curtail or interfere with the pharmacist's ordinary business beyond what is strictly necessary in the public interest. We do not suggest that when a pharmacist carries on a separate wholesale business he should be exempt in respect of that business from the necessity of procuring a licence, but we do suggest that it should not be necessary for him to have a licence to transact occasional business that might be said to be of a wholesale character.

We desire to make the position of pharmacists as clear as possible, and prevent non-observance of the Regulations through misunderstandings.

From the Home Office, 30/8/21.

With reference to your letter of August 17 concerning the position of pharmacists with reference to sales of drugs coming within the provisions of the Dangerous Drugs Act to doctors, dentists, veterinary surgeons, and other authorised persons, I am directed by the Secretary of State to say that in his opinion there is nothing in No. 10 of the Regulations which he has made under Section 7 of the Act to prevent pharmacists selling the drugs to duly qualified medical practitioners, registered dentists, registered veterinary surgeons, or other authorised persons, but it does not authorise a pharmacist to carry on a wholesale business.

Mr. Mallinson's comment on this is as follows :

It appears that a pharmacist may sell from his retail business such quantities of these drugs as medical practitioners, dentists, and other authorised persons desire to buy from him. If a pharmacist has transactions of this kind, which form the most important part of his business, he might be said to be carrying on a wholesale business, and a licence would in these circumstances be required. The Home Office apparently has no desire to cause inconvenience to medical men and others who have appreciated in the past the convenience of being able to procure supplies quickly from the local pharmacist.

At the Counter.

Idem, Eadem, Idem.—2*d.* cotch a ill, 2*d.* cotcho niel, 2*d.* Scotaneal.

English as sometimes written in Ireland : Lucrus Liptus Oil, ukelaptise, Eau de Cleptis, Balsalmn Qui Pivi.

Development in the Near East (of London).—"A bottle of Mahomet's constipated developer, please." Monomet supplied.

"Middlepool Violet" presented but little difficulty to a Reigate pharmacist, whose solution, Liverpool virus, turned out to be correct.

Chilly Clapham.—"One of those vacuum flasks that you keep the thermogene hot in" was a recent request in the London borough that, according to a once popular saying, is built on a volcano.

Veterinary Counter Practice.—A huge woman, built for comfort rather than speed, entered a West Bromwich pharmacy (15/2) one morning and asked, "Can yer give me sommert for me throat, mister? I'm a little 'oarse."

The Morning After.—"Will you send me something for my mouth and tune I am very feashes and my tune is fured up. I am sufering from my head. . . . Will you send me a bottle of metsing pleas Sir will you ablige." The original of this effort was addressed to a Midlands subscriber.

A Useful Viva-voce Examination.—Customer : A cepity powder, please.

Chemist : Do you know it's poison?

Customer : I don't know nothing about it, only that my son is going to take it for headache.

Seidlitz powder supplied.

For Sea-sickness.—Professor Nolf, Liège, recommends atropine for sea-sickness, in doses of one milligram of sulphate prior to sailing, and two other doses at half-hour intervals. For long voyages, persons subject to sea-sickness should keep themselves continuously under the influence of the medicament by 1 mg. early in the morning and $2\frac{1}{2}$ mg. at intervals during the day

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Notes on Books

DR. W. T. GRENFELL

in his autobiography ("A Labrador Doctor") gives an amusing account of the amount of the acquaintance with materia medica and dispensing required of candidates for a medical degree by the London University and the College of Physicians and Surgeons when he was a student at the London Hospital in the 'eighties of last century. "Tipping the beadle" seems to have been a common substitute for attending lectures. Dr. Grenfell attended only two lectures on botany during the whole course, and neither of these was actually delivered—owing to the rowdy behaviour of the class. "Materia medica was almost identical," and chemistry not much better, the class being described as "pandemonium." What is said of dispensing had better be told in the writer's own words: "We had to attend in the dispensary, actually to handle drugs and learn about them—an admirable rule. Personally I went once, fooled around making egg-nogg, and arranged with a considerate druggist to do the rest that was necessary. Yet I satisfied the Examiners at the Colleges of Physicians and Surgeons, those of the London University at the examinations for Bachelor of Medicine—the only ones which they gave which carried questions in any of these subjects."

"ÆSCULAP"

is the title under which the first pharmaceutical almanac of the new kingdom of the Serbs, Croats, and Slovenes makes its appearance. It is edited by M. A. Mirkovic, editor of the Jugo-Slav pharmaceutical journal "Glas Apotekarstva," and member of the board of health for pharmaceutical matters. After giving a calendar for the year, there follows a table stating the plants to be collected during each month. Information concerning the postal rates, laws affecting the profession, lists of universities and of professional bodies, boards of examiners, a list of all the pharmacists and also of the wholesale drug houses in the kingdom, antidotes to poisons, tables of physical constants, maximum doses of heroic drugs, and a list of the spas in Jugo-Slavia are included. Among the special articles also presented is one dealing with the microscopical recognition of tubercle bacilli, and another treating of special tests for a number of chemicals and pharmaceutical preparations. Among the foreign firms appearing in the advertisement pages figure four French drug houses, in addition to the names of several well-known German houses, which are again represented in the Balkans. The little work will prove a useful reference book to those having dealings with pharmacists and wholesalers in Jugo-Slavia.

A FASCINATING TRAVEL-BOOK

Sir Frederick Treves, the list of whose books of travel is growing a long one, has never produced anything of the kind more interesting or more beautifully illustrated than his latest, "The Riviera of the Corniche Road." He devotes a whole chapter to Grasse, and, of course, has something to say of its principal industry. He speaks somewhat contemptuously, however, of the day-trippers who confine their visits to the soap and scent factories and pay no attention to the natural or architectural attractions of the town. The factories apparently have small attraction for him; he says, "Those who have any regard for flowers should avoid a perfume factory as they would a slaughter-house," and though he regards "the triumph of soap over sentiment" as commendable from a hygienic point of view, he reminds his readers that soap may be got of quite a good quality in England—"even in Brixton." One wonders why Brixton is singled out so invidiously. The statistics of the flower industry are astounding, or would be if one could realise what they mean. Four million pounds of orange blossoms and three million pounds of roses (the average yearly amount dealt with) convey little to the mind; that nine billions six hundred millions of jasmine flowers are yearly picked by hand to supply the world with jasmine perfumes conveys nothing except that an enormous amount is picked.

FEW BOOKS

of the kind that I have read lately are so full of interest or are written in so lively and entertaining a style as Captain Monckton's "Some Experiences of a New Guinea Resident Magistrate" (John Lane, The Bodley Head, Vigo Street). It is frankly a record of personal experience and adventure, with no pretension to scientific value; yet it may quite appropriately be recommended to readers of the *C. & D.* on account of the information it incidentally conveys concerning matters in which they are interested. Captain Monckton, though not a medical man, has been a student of medicine, and has a good deal to say about the diseases common in New Guinea, and native and other methods of treating them. His own medical practice among the natives was decidedly heroic, and his method of dealing with sorcerers, amusing as his account of it is, can only be justified by its success. The treatment for lumbago to which he himself submitted at the hands of a native practitioner was, however, as severe as any of his own prescriptions. The narrative of Captain Monckton's adventures as a gold-seeker, a pearl-shell fisher, and a trader by land and sea before receiving his appointment as a magistrate reads like a chapter of romance. It is somewhat surprising to hear that the worst enemy of the deep-sea diver is not the shark, but a large cod called the groper, and that of all cargoes the one the smell of which becomes most offensive on a long voyage is sandalwood.

AUSTRIAN PHARMACEUTICAL CALENDAR

The Pharmaceutical Calendar, issued by the General Austrian Association of Pharmacists, has reached its eighty-fifth year of publication, and has now appeared in a very emaciated form, although the price has risen nearly a hundredfold. It is a small volume, 3½ by 5½ inches, containing 210 pages, of which sixty-four are devoted to advertisements. It begins with an almanac of the year, giving the saints according to the Catholic, Protestant, and Greek calendars, and the Jewish festivals. This is followed by a table of fees for carrying out various analyses, lists of the pharmacies, and names of their owners, in Austria and Czecho-Slovakia, of the pharmacies formerly in Austria and now in Poland, Jugo-Slavia, and Italy. In addition we find a list of pharmacies in Roumania and Bulgaria. The other information therein contained includes a list of the pharmaceutical organisations and associations in Austria and in the neighbouring States, a list of the professors of medicine in the University of Vienna, the scale of salaries for pharmaceutical assistants, a list of specialities the sale of which is forbidden in Austria, a table of maximum doses, English and American weights and measures, alcohol table, and postal information. We note that Austria now possesses in all 458 pharmacies, of which 192 are in Vienna. Czecho-Slovakia counts 922, Jugo-Slavia 399 (of which Montenegro possesses nine, and the former kingdom of Serbia ninety-nine). Austria has lost to Italy altogether 210 pharmacies, and to Poland 663, while Roumania's share of Austrian pharmacies amounts to forty-one. Bulgaria, we note, possesses 174 pharmacies, of which twenty-two are in Sofia, in addition to twenty-two druggists.

"USTROJ APTEKARSTWA W POLSCE"

Under the above title M. F. Herod, the editor of the leading Polish pharmaceutical journal, "Wiadomosci Farmaceutyczne," now in its forty-eighth year, has published a small work of seventy-five pages which marks a welcome contribution to pharmaceutical literature, and will afford interesting reading to those possessing a knowledge of the Polish language. Before dealing with its contents, it is well to recall the fact that the new Republic is formed of territories formerly pertaining to Austria, Russia, and Prussia, representing three distinct systems of pharmacy, and at the present moment each of these portions retains its former system, including the several pharmacopœias, regulations, etc., issued by the former Governments of these parts. It is evident that such a state of affairs cannot continue, and it is imperative to introduce uniform

legislation for the whole nation. This has been acknowledged, and the subject is now under consideration in the Polish Parliament, where two projects are being discussed; one elaborated by the Government, and in view of the preponderance of socialist elements in the Parliament, proposes the nationalisation of pharmacies, while the other has been elaborated by the pharmaceutical association of Poland, and favours the introduction of the personal concession system. In his book M. Herod first reviews briefly the historical development of pharmacy from the time of Hippocrates, and incidentally we learn that the oldest pharmacy in the present limits of Poland is to be found in the town of Poznan, until the treaty of Versailles known by its German name of Posen. This pharmacy was founded in the year 1187, followed in 1232 by one opened in Gniezn (Gnesen), the oldest town in Poland, while Warsaw obtained its first pharmacy in 1444. The first Polish decrees affecting the sale of drugs were issued in 1523 and 1662, and the first body constituted to deal with medical and pharmaceutical matters was the "Collegium Medicum," founded in 1753. After that date pharmacy in Poland was regulated by the laws issued by the various Governments, Russian, Austrian, and Prussian, to which its territory had been allotted. The author then proceeds to describe the systems in force in Great Britain, the United States, France, Germany, Austria and Italy, and the curriculum prescribed in each of these countries. In reviewing the various systems, he rejects both the unrestricted exercise of the profession, as is the case in Great Britain and France, and the idea of introducing the nationalisation of pharmacies, "although the latter would be an ideal system, but under existing conditions could not be maintained!" He proposes the system of the purely personal concession, to be granted to the holder for his lifetime only, and on his death to be granted to another pharmacist in open competition, according to age. In order to abolish the existing privately owned pharmacies—the "privileged" pharmacies—he proposes the purchase by the State of these rights by a method which was already carried out in Sweden, with some modifications. The value of the privilege—i.e., of the goodwill—of these businesses would be established by deducting all expenses from the annual turnover. The remaining amount would represent the interest on the capitalised value of the goodwill, for relinquishing which the owner would receive an equivalent in national Consols bearing interest at the rate of 4 per cent. In order to avoid any charge upon the national debt, he suggests that these pharmacies should then be leased, the holder paying an annual charge amounting to 5 per cent. of the capitalised value of the goodwill, which would provide a means of extinguishing the debt within a period of forty-four years, whereupon all these pharmacies would become the absolute property of the State, free of charge, and could then be treated as purely personal concessions, on the same lines as the remainder of the businesses in the country. He is in favour of a higher technical as well as scientific education for pharmacists, and in this connection we may mention that since the publication of his book the Polish Government has decreed that only holders of the matriculation certificate may enter the pharmaceutical profession. In addition, he demands the creation of old-age insurance for pharmacists, and a fund for the provision of the widows and orphans of pharmacists. It is also extremely interesting to note that he even ventures, in these enlightened times of feminism, to discuss the advisability of curtailing women's rights in pharmacy, and demands that they should be required to serve a longer time as assistants, before being allowed to compete for a concession, than is to be imposed in the case of male pharmacists.

WAGES IN DENMARK.—A return issued by the Danish statistical department on August 5 shows that, if the country be taken as a whole, the average hourly earnings in the industries covered had fallen by 1.5 per cent. since the previous quarter, but were still 298 per cent. above the level of 1914. The average earnings of female workers remained at the same level as in the previous quarter—viz., 1.31 kr. an hour.

Reviews of Books

The Analysis of Resins, Balsams and Gum Resins. By K. DIETERICH. Second English edition. $8\frac{5}{8} \times 5\frac{1}{4}$. Pp. 431. 17*s.* 6*d.* (London: Scott, Greenwood & Son, 8 Broadway, Ludgate, E.C. 4.)

The first edition was published in 1901, and the present one has been revised and enlarged by Mr. H. B. Stocks. The work has been divided into two main portions—(1) general, and (2) special. The first deals with the definition of the resins, the usual methods of examination, identification, classification, and general properties, as well as the chemistry of the constituents of the resins. The second part describes the origin and habitat, chemical constituents, general properties, commercial varieties, adulterations and substitutions, and analysis of the resins. The subdivision into balsams, resins, and gum resins has been retained. The book deals mainly with pharmaceutically interesting substances, and Dieterich writes with expert knowledge on the chemistry of this subject.

Bolshevik Russia. By G. E. RAINE, in collaboration with E. LUBOFF, LL.D. Pp. 192. 1*s.* (London: Nisbet & Co., Ltd.)

This book contains a wealth of information on the organisation and administration of Bolshevik Russia. The official description on the economic situation of Soviet Russia, presented by M. Rykoff to the Congress of National Economic Councils held in Moscow, January 22 to 25, 1920, throws an interesting light on the deplorable state of the country, as set forth and admitted by one of themselves. Of the 4,000 nationalised industries about 2,000 are at present working, and all others are at a standstill; about 1,000,000 persons are in employment. From the figures given of the result of the special inquiry made in 1918 with regard to unemployment in Petrograd we learn that whereas on January 1, 1917, 5,194 workmen were employed in the chemical industry, on April 1, 1918, the number had fallen to 2,350, no less than 2,090 having been discharged in 1918. It is rather startling to read that Bolshevism was born in London in the summer of 1903, at a meeting of the Russian Social Democratic Labour Party, held in a building in the East End, at which Lenin was present, and the amendment pressed through by him led to the formation of the party which became known as the "majority" = Bolsheviki. Light is thrown on the mystery of Lenin's person, who is stated to be an hereditary nobleman (oh irony!), the son of a Privy Councillor of the Simbirsk province, and a lawyer, who has attended the Kazan and Petrograd Universities. His brother was hanged for participating in a Terrorist plot. His wife, an active co-worker with him in the Bolshevik administration, is a Polish lady who has tasted exile in Siberia. The Bolshevik Soviet Constitution, reproduced in the appendix, is one of the valuable features of this interesting work.

TREATMENT OF STINGS.—The danger attending wasp- and bee-stings, says Sir James Cantlie, in an interview recorded in the "Morning Post" of August 30, is underestimated. In the event of a sting, which if on the throat "almost invariably proves fatal," Sir James advocates painting the affected part with "iodine or some other strong disinfectant."

IMPORTATION OF PREPARATIONS CONTAINING OPIUM.—It is stated in Customs Circular X. of 1921, issued by the Department of Commerce of the Government of India, that it has been decided to include "Enteronol" or "Cholerol" in the list of preparations containing opium and morphia attached to Customs Circular No. III. of 1913, as subsequently amended, the importation of which into British India may be admitted by Collectors of Customs under the proviso to the Notification No. 720-79 of February 4, 1911. It is provided in this Notification that the Collector shall have power to admit import, by sea or by land, in exceptional cases, or when he is satisfied that the proportion of the prohibited drug is so small as to be negligible, or that other reasons render it impossible for the article to be used as an intoxicant.

Summer Outings

Lancaster Chemists at Sedbergh

LANCASTER pharmacists held their summer outing recently by motor charabanc to Sedbergh. The route lay through Hornby, Melling, and Tunstall (where Charlotte Brontë went to school), to Casterton. A halt was made to admire the frescoes in the church, and the run to Sedbergh was amid lovely scenery. The White Hart Hotel was the headquarters, and here "high tea" was served. Mr. H. Troughton presided in the unavoidable absence of the President (Mr. R. T. Simpson). Through the efforts of Mr. Woodhouse, a former Lancaster chemist, arrangements had been made for the holiday-makers to use the tennis court and bowling green, and several games were enjoyed. The return journey was made via Whittington, Red Well, and Hatton.

Irish Chemists' Picnic

The Chemists' and Druggists' Society of Ireland held their annual picnic on August 24 at Whitehead. There was a large turn-out of the members and their friends. On arriving at Whitehead the President (Mr. Fred Storey) and Mrs. Storey entertained the party at Esplanade House. Among those also present were Mr. S. Gibson, J.P. (hon. treasurer), and Mrs. Gibson, Mr. W. J. Rankin (hon. secretary) and Miss Rankin, Mr. and Mrs. J. Frackleton, Mr. F. T. Smith, J.P., and Miss Smith, Mr. and Mrs. S. Nevin, Mr. and Mrs. Wm. Martin, Mr. and Mrs. J. D. Carse, Mr. and Mrs. J. Macauley, Mr. and Mrs. J. Moffett, Mr. and Mrs. H. Johnston, Mr. Samuel McDowell, Major and Mrs. Harper, Mr. and Mrs. Bryce McDowell, Mr. and Mrs. C. Abernethy, Mr. and Mrs. George Johnston, Mrs. and Miss Manson, Messrs. S. Suffern, R. A. Jamison, S. Haydock, John Long, J. H. McRoberts, T. Stephenson, and others. After tea the President expressed his pleasure at having so many present, and Mr. S. Gibson, in proposing a vote of thanks to the President and Mrs. Storey for their hospitality, said it was placing them under a still further debt of gratitude, as they all knew the enormous amount of work Mr. Storey had done for them and the drug-trade. Mr. F. T. Smith, J.P., seconded, and Mr. S. Suffern also spoke. Mr. Storey, in thanking the speakers, said he regretted the absence of one of the hon. secretaries, Mr. W. E. Wilson, whose stay in Bournemouth they all trusted would be greatly beneficial to him. To Mr. W. J. Rankin, the hon. secretary, the thanks of all present should be given for the admirable arrangements he had made for them. At a committee meeting later, important proposals were considered regarding the postponed meeting of all the druggists. The party, before returning, spent a few hours round Blackhead.

Photograph] [*A. R. Hogg, Belfast.*

PICNIC PARTY AT WHITEHEAD.

DANVAL, the pharmacist condemned to penal servitude for life for the poisoning of his wife by arsenic, and released in 1903, now proposes to take action for his legal rehabilitation (the official reversal of his sentence).

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

SCOTLAND

August Drug Tariff

The following are the alterations for August in the Insurance Drug Tariff as authorised by the Scottish Board of Health :

Acetanilid., 4½*d.* oz.; acid. gall., 9½*d.* oz.; acid. tann., 8*d.* oz.; anthem. flor., 3*d.* oz.; bals. Peru., 1*s.* 10½*d.* oz.; bism. subgal., 2*s.* 1½*d.* oz.; camphor., 6½*d.* oz.; cocain. hyd., 4*s.* 5½*d.* dr.; codein., 6*s.* 4*d.* dr.; codein. phos., 5*s.* 10*d.* dr.; copaiba, 5½*d.* oz.; digitalin., 1*s.* 2*d.* gr.; ext. casc. sag. liq., 3*d.* oz.; ext. ergot. liq., 1*s.* 5½*d.* oz.; ext. glycy. liq., 4½*d.* oz.; ferri et quinin. cit., 2*s.* oz.; guaiacolis carb., 2*s.* 10*d.* oz.; hexamin., 1*s.* 1½*d.* oz.; inf. caryoph., ½*d.* oz.; lin. camph., 3*d.* oz.; ol caryoph., 1*s.* 5*d.* oz.; ol. menth. pip., 3*s.* 8½*d.* oz.; ol. tereb., 1½*d.* oz.; phenac., 1*s.* 4*d.* oz.; phenazon., 1*s.* 8*d.* oz.; phenolphthal., 1*s.* oz.; physostig. sulph., 11½*d.* gr.; pot. sulphurata, 3½*d.* oz.; pot. acet., 4½*d.* oz.; pot. brom., 2*d.* oz.; pot. cit., 5½*d.* oz.; pot. permang., 3*d.* oz.; pulv. ipecac. co., 7½*d.* oz.; salicin., 3*s.* 9*d.* oz.; scammon. res. pulv., 1*s.* 5*d.* oz; sp. amm. arom., 5*d.* oz.; sp. chlorof., 6*d.* oz.; sulphonal, 3*s.* 9*d.* oz.; syr. ferri phosph. c. quin. et strych., 3½*d.* oz.; syr. glyceroph. co., 4*d.* oz.; syr. rhei, 2½*d.* oz.; tinct. card. co., 3½*d.* oz.; tinct. opii, 5*d.* oz.; tinct. rhei co., 4*d.* oz.; ung. acid. bor., 2*d.* oz.; ung. glyc. plumb. subacet., 4*d.* oz.; ung. hyd. amm., 3*d.* oz.; ung. sulph., 2*d.* oz.; ung. zinci, 2*d.* oz.; vin. ipecac., 4½*d.* oz. APPLIANCES — *Bandages*: Grey, 4 yds. long, 2 in. 2*d.*, 2½ in. 2½*d.*, 3 in. 3*d.*, 4 in. 4*d.* each; white, 4 yds. long, 2 in. 2½*d.*, 2½ in. 3*d.*, 3 in. 3*d.* each; crêpe, 6 yds. long, 2 in. 1*s.* 9½*d.*, 2½ in. 2*s.* 3*d.*, 3½ in. 2*s.* 11½*d.* each; elastic web, 2½ in. 1*s.* 1½*d.*, 3 in. 1*s.* 5*d.* per yd. *Lints*: Unmedicated, 1 lb., 4*s.*; boric, 1 lb., 2*s.* 11*d.* *Wools*: Boric, 2*s.* 4*d.* per lb., 2½*d.* per oz.; salalembroth, 2*s.* 8*d.* per lb., 3*d.* per oz.

Wills.

MR. ROBERT ELLIS, J.P., Ph.C., 53 Terrace Road, Aberystwyth, who died on July 20, left estate of the gross value of 2,392*l.* 3*s.* 3*d.*, of which 1,633*l.* 8*s.* is net personalty.

MR. JOSEPH BURRELL WILLIAMSON, J.P., chemist and druggist, 1 Camp Terrace, North Shields, who died on July 3, left estate of the gross value of 26,120*l.* 17*s.* 6*d.*, with net personalty 20,822*l.* 10*s.* 9*d.* The testator left 500*l.* and his household effects to his wife, and the residue of his estate to his wife during widowhood and then to his children as she may appoint, or, failing appointment, to his children in equal shares.

BOLSHEVISTS BANNED?—Students wishing to enter the university of Budapest are now required to submit, in addition to the usual documents, a certificate setting forth their attitude during the communist *régime* under Béla Kun.

Association Affairs

Dublin.—The Dublin and Provincial Retail Drug Association held a committee meeting on August 24, Mr. R. N. Campbell (Vice-President) in the chair. The following were also present: Messrs. W. F. Ellis, A. H. Oliphant, B. R. Allshire, Robert Mellon, Geo. Brown, Victor E. Hanna, Sir Thomas Robinson, and Mr. R. J. Kidney, secretary. Mr. T. J. O'Riordan, Main Street, Templemore, was elected to membership. It was decided to send all members of the Association a cardboard reprint of the Dangerous Drugs Act Regulations, and also to circularise the doctors in Dublin and district, reminding them of their duties under the Act. With reference to the provinces and country districts, members are requested to send to the secretary a list of practising doctors in their respective districts, when a supply of circulars and pamphlets will be sent to them.

Leeds.—A meeting of the Leeds Chemists' Association was held on August 29, the President (Mr. H. Gilleghan) in the chair. A discussion took place on the Dangerous Drugs Regulations. Copies of a register published by the Association were afterwards sold at 3*s.* 6*d.* The meeting confirmed the amended constitution of the Association, of which the following are the more important features:

(*a*) The Association shall consist of full members paying a subscription of 10*s.* per year, members paying a subscription of 7*s.* 6*d.* per year, and associates paying a subscription of 5*s.* per year. The subscription shall become due on May 1, and must be paid before October 1, failing which membership shall cease automatically. (*b*) No person shall be eligible for full membership who is not a member of the Pharmaceutical Society and of the Retail Pharmacists' Union, nor for membership who is not a member of either body, nor for associateship who is not registered as a student-associate of the Pharmaceutical Society. (*c*) Full members, members, and associates may be elected by the Council or at any ordinary Association meeting; a majority of two-thirds of the members present shall be needful for election. (*d*) The Council shall be elected from and by the Pharmaceutical Society members, and shall consist of a President, two Vice-Presidents, treasurer, secretary, and nine other members, five to form a quorum. The Council shall be elected annually by ballot at the general meeting, and an auditor elected for the coming year. (*e*) The Retail Pharmacists' Union members shall also elect a chairman, vice-chairman, treasurer, and secretary, and such of their number as may be deemed necessary to form a Council. (*f*) The treasurer of the Association shall allocate to the treasurer of the Union section one half of subscriptions of full members, while Retail Pharmacists' Union members shall pay the subscription direct into the fund of their section. (*g*) The working of the Retail Pharmacists' Union section shall be autonomous, and shall not be subject to any control by the President and Council of the Association. (*h*) Full members shall have the right to attend and vote at all sectional meetings, special or otherwise, of the Association, but members shall only attend and vote at the meetings of their own sections and meetings of the Association as such.

Scottish Pharmaceutical Federation.—A meeting of the Border Branch of the Scottish Federation was held on August 25, at St. Boswells, the President (Mr. W. E. Wilson, Hawick) in the chair. The Dangerous Drugs Regulations were discussed, and the secretary was instructed to advertise in all the local papers that the sale of laudanum in the ordinary way of business is now illegal. It was felt that such advertisement would save a great deal of verbal explanation. The chairman expressed a hope that wholesale houses would not issue weak preparations of opium with the object of getting behind the law, as this might lead to more drastic and irritating Government Regulations. The meeting decided to recommend members to add a clerical charge of at least 3*d.* to every prescription which entailed entry in the register. The Proprietary Medicines Bill was also discussed, and considerable sympathy expressed with its objects, in so far as they tended to eliminate the more objectionable type of patents. It was agreed to request the Federation Executive to take steps to procure collective action on the part of Scottish chemists to cease stocking patents which gave an inadequate working profit.

Birth

Davies.—At "Kinross," 164 Clapham Road, London, S.W. 9, on August 29, the wife of Gwilym Davies, M.P.S., D.B.O.A., F.I.O., of a daughter.

Marriages

Jones—Davies.—At Sion Congregational Church, Llandyssul, on August 24, Thomas James, son of Mr. Ben Jones, Alltycafan Mills, to Marian Elizabeth Gwladys, eldest daughter of Mr. Thomas Davies, chemist and druggist, Medical Hall, Llandyssul.

Low—Lucas.—At St. Andrew's Parish Church, Shifnal, on August 18, David Dewar Low, chemist and druggist, son of Mr. David Low, Ph.C., Hexham, to Mildred, youngest daughter of the late Mr. Joseph Lucas, Upton.

McCaughey—Dixon.—At Port Elizabeth, on July 30, James McCaughey, chemist, Klerksdorp, Transvaal, to Dorothy May (Dolly) Dixon.

Deaths

Percy.—At 3 Derry Villas, North Road, Plymouth, on August 19, Mr. Thomas Bickle Percy, chemist and druggist and manufacturing chemist, aged eighty-four. Mr. Percy carried on business at 11 River Street, Truro, for many years.

Swinglehurst.—At Barrowford, recently, Mr. Josiah Swinglehurst, chemist and druggist and postmaster, 137 Gisburn Road, aged fifty-one. Mr. Swinglehurst had carried on business at Barrowford for thirty years, and was widely esteemed. He leaves three sons and a daughter.

Wheeler.—At 13 Boscombe Road, Southend-on-Sea, on August 27, Thérèse Caroline Cotton Wheeler, widow of Mr. Henry Wheeler (Henry Wheeler & Son, drug merchants, 9 Great Tower Street, E.C. 3), aged sixty-three.

Williamson.—At 59 Maxwell Road, Bournemouth, on August 22, Mr. Joseph Charles Williamson, managing director of J. Hulme & Co., Ltd., chemists and wholesale druggists, 132 Huddersfield Road, Oldham, aged sixty-eight. Mr. Williamson went to Oldham nearly fifty years ago as assistant to the late Mr. John Hulme; he eventually acquired the business, and converted it into a limited company in 1891. Since last October he had been residing at Bournemouth on account of ill health. He is survived by a widow, a son, and three daughters.

Personalities

Sir William Pope, F.R.S., ex-President of the Society of Chemical Industry, has received the degree of Doctor of Law, *honoris causa*, at McGill University.

Mr. Humphrey Kent (G. B. Kent & Sons, Ltd.) has been appointed a director of the company. Mr. Kent represents the fifth generation of the family, being a great-great-grandson of William Kent, who founded the business in 1777. Mr. C. F. Barrett, who has been a director since its incorporation in 1900, has retired from the board after fifty-two years' connection with the company.

Mr. C. A. Critchley, Ph.C., Blackburn, has undertaken the duties of organising secretary in connection with the shopping "festival" arranged by the local chamber of trade to commence on October 19. Mr. R. H. McMyn, President of the local Association, is serving on one of the committees. The scheme includes several novel features, and is expected to attract numerous visitors.

Oil Deposits in France.—A Reuter telegram states that prospecting work in the Haute Loire Department has revealed the presence of vast oil deposits, and that arrangements are being made for their development.

Trade Notes

HOWARDS' ASPIRIN TABLETS.—An announcement regarding the window-show bonus of Howards' aspirin tablets is made in the advertisement of Howards & Sons, Ltd., Ilford, London.

ESS VIOTTO BONUS.—H. Bronnley & Co., Ltd., Acton Vale, London, W. 3, are offering, until September 30, a bonus for window and counter shows of ess viotto and ess viotto soap.

ZEE-KOL MEDICATED SOAP.—The retail and wholesale prices of this soap have been reduced as from September 1. The announcement of the Zee-Kol Manufacturing Co. in this number gives the new terms.

PACKED CHEMICALS FOR RETAIL.—Evans, Gadd & Co., Ltd., Exeter and Bristol, specialise in chemicals packed ready for sale by chemists. The chemist's name is printed on the label, and a considerable saving is effected by getting the wholesaler to do the packing.

LOPOIDINE is the name given by J. F. Macfarlan & Co., 9 and 11 Moor Lane, Fore Street, E.C. 2, and Edinburgh, to a preparation which consists of the total alkaloids of opium in soluble form. It is put up in packages containing quantities of from one gram to twenty-five grams.

D.D. INDEX.—Mr. G. F. Weiss, 180 Philip Lane, Tottenham, London, N. 15, asks us to state that, owing to the number of orders received for the Dangerous Drugs Index and Register, there was unavoidable delay in sending out some of the copies. A new edition is being prepared, as the first was sold out so quickly.

SPIRIT DUTY.—Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, Holloway, London, N., have a striking advertisement regarding the prohibitive duty on spirit. By using Fletcher's concentrated liquors the use of spirit can be eliminated in many proprietary and other pharmaceutical preparations, an important saving being effected without any imparement of medicinal value.

VIVAUDOU PERFUMES.—Mr. F. A. Bell, M.P.S., has been appointed sole agent for the British Isles for the Vivaudou, Arly, and Delettrez toilet specialities and perfumes, and is now established at 1 Montague Street, London, W.C. 1. A price-list of the Mavis series is in the company's advertisement in this issue, and a general invitation is extended to chemists to visit the showrooms.

TIDMAN'S SEA SALT.—A new container has been adopted for Tidman's sea salt, which keeps the contents free of moisture and so prevents spoiling. The advertisement in this issue of Tidman & Son, Ltd., 69 Basinghall Street, London, E.C. 2, mentions the retail and wholesale prices, which are protected under the scheme of the Proprietary Articles Trade Association. An extensive advertising campaign is being inaugurated this month, which makes it desirable that retailers should be ready to supply the salt in the new package.

CHRISTMAS CARDS AND CALENDARS.—Raphael Tuck & Sons, Ltd., Raphael House, Moorfields, London, E.C. 2, have sent us a parcel containing samples of the new Christmas cards and calendars which they are offering to the trade. The company produce about 3,000 designs in cards and calendars, so that every taste can be satisfied. The honour accorded to the house of producing cards for various members of the Royal Family is continued, these being very charming souvenirs, which can be purchased by the public. The pot-pourri series of Christmas and New Year cards embodies the bright idea of including a little pot-pourri in the meshes of a vase pictured on the card. There are many other attractive cards, and all purses are catered for, the cheaper productions being equally characterised by dignity and suitable greetings or verses. Christmas and New Year postcards are also issued, this being a form of season's greeting preferred by many. The company also issue about 400 different calendars, including engagement calendars, with thermometers, and facsimiles of oil-paintings ("Oil Facsims"). Another department of the business produces gift-books, toy-books, and painting-books for young people. A complete catalogue of cards, etc., illustrated with reproductions of characteristic specimens, is published, and can be had on application.

Chinese News

DYES.—The Chinese Ministry of Agriculture and Commerce has registered the China Dupont Dye Co. organised by Dr. C. T. Wang.

SZECHWAN WAX.—Owing to the unrest in Szechwan and the consequent difficulty in transportation, the price of bees' wax in Shanghai has risen to an abnormal figure. The shortage is reaching the acute stage, and many telegrams have been sent to Szechwan urging immediate shipment.

TEA SEED AND TEA OIL.—Fukien is famous for its tea seed and tea oil. The annual production of the former amounts to 200,000 piculs, which mostly comes from the districts of Mintsing, Hwangtien, Fuan, and Yenping; while that of the latter totals 22,500 piculs, about one-fourth of which is exported from Swatow and Amoy. The price of tea oil at the commencement of the season was Tls. 12 per picul, but later, in May and June, a picul was usually worth about Tls. 15. Tea oil has many uses. It is a dietary commodity; it is used in the preparation of tobacco; it is a fuel for lighting purposes; and it is made into hair-oil. The best quality is of a golden colour, the inferior grades being brownish. There has been a marked decrease in China's exports of tea oil since 1919, figures being as follows: 1919, 56,976 piculs, valued at Tls. 627,799; and 1920, 24,638 piculs, valued at Tls. 293,806.

VEGETABLE TALLOW.—Exports of vegetable tallow (*Stillingia sebifera*) from China amount annually to from 200,000 to 300,000 piculs, most of which, prior to the war, was sent to the Netherlands, France, and Germany. Since the European War, however, the United States, Italy, and Great Britain have become the chief buyers. The following table, quoted from the reports of the Chinese Maritime Customs, indicates the importance of the commodity in China's trade:

Year	Amount	Year	Amount
1914	190,094 piculs	1918	162,881 piculs
1915	181,482 „	1919	164,544 „
1916	256,960 „	1920	69,118 „
1917	151,385 „		

The home consumption of tallow is about equal to the foreign demand. The principal port of export is Hankow, which controls 90 per cent. of the total trade. The producing districts are in the north-western part of Suifoo, Szechwan, in the *hsiens* on the borders of Hupeh, Szechwan, and Kweichow, and the north-western section of Hweichow, Anhwei. In China the tallow is mostly used in the manufacture of candles, but in Europe and America it is used to manufacture stearine for soap.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

N/298. Tozer's navy-blue serge cleaner.
G/298. Acetuloid.
D/238. Lipogenol.
N/258. "Stiflex" tooth-brush.
M/258. Spelterine shale earth.

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Ablutonic sponges, C/258
Belgian tumbler makers, S/308
Binns' metal combs, M/298
Bleached Irish moss, A/298
"Californian Bees," N/298
"Derbac" disinfectant soaps, H/268
Elixir Colloid, H/318
"Hygeia" fluid, S/208
Malt, ale and stout, for brewing purposes, B/308
"Melissa" toilet preparations, D/258
Mikado toilet paper, T/298
Nemolin ointment, G1/308
"Novoid" tab. iod. organic comp., M/298
Optical tuition (postal), B/258
"Pharos" disinfecting fluid, S/308
Pond's Extract, T/278
Riodine capsules and tablets, M/298
"Septol" disinfectant, S/308
"Utol" disinfectant, S/308
"Zondo-sal," S/308

Observations and Reflections

By Xrayser II.

Your D.D.A. Card

does all that is humanly possible to elucidate the Regulations and facilitate their application to the daily round of the chemist's business. Possibly the annoyance caused by them will with familiarity prove less than we anticipate, yet with all the help you give us they cannot fail to increase greatly the time and labour spent in dispensing, and the necessity of constant vigilance to avoid breaches of the law will be added to our other cares. Some loss of custom will also inevitably result from them. We shall do less of what must be admitted to be legitimate business in these drugs, and as it will often happen that we are acquainted neither with the signature of the prescriber nor with the person of his patient, many of us will decline prescriptions we might otherwise have dispensed with some profit. The having no reason to suppose a prescription is not genuine is a very precarious plea to urge should trouble arise in connection with it, and this, taken in conjunction with all the other trouble involved, will certainly affect our dispensing department to a considerable extent.

There is but One Remedy,

and that only a partial one. We must take occasion from these Regulations, which at once reduce our business and double our responsibilities, to raise our charges for dispensing. We ought to have done this already much more heroically than we have had the courage to do. A new source of anxiety is being added to our work, in the most exacting part of which we are to be further hampered by a host of petty requirements, and are we to have no recompense? It is clear that the dispensing of the future will not be worth doing at the old rates; even the public can surely be made to see that an occupation demanding so much care may reasonably claim to be better remunerated. There is at least one advantage accruing to us from these Regulations—they show how onerous and difficult our calling is, and the price we have to pay for the scanty privilege accorded us under the Pharmacy Acts.

Business Insurances

are unfortunately necessary to one's peace of mind, though personally I should have been better off to-day had I never spent a penny on them. This, I have little doubt, could be said too by the great majority of insured persons; and, considering the very few cases I have known of substantial benefit being received from an insurance policy (life assurance excepted), I cannot but think that, as a rule, premiums are higher than they ought in equity to be. How very rarely (comparatively speaking) an accident occurs against which one is insured! The positive risks to any individual of any kind of accident to person or property are, I am convinced, out of all proportion less than, judging only by the premiums charged for insurance against them, one would suppose them to be; and this is true, too, of cases into which the element of accident does not, properly speaking, enter. The fortunes made at Lloyd's during the war may be cited in proof, but it is sufficient to recall the very few instances occurring within one's own observation which could be cited to the contrary. The feeling of comparative security which insurance gives is worth a good deal, but it ought not to be rated so highly as apparently it is in the fixing of premiums.

My Critic,

Mr. Spafford, who appears to have an exhaustive acquaintance with English villages, cannot, with all his knowledge, refute facts, and my note on village pharmacies dealt chiefly with facts for which I can vouch. My inferences from them may not hold good in every case, and I do not deny that a pharmacist may get a living in some of them, but I am very sure that in the typical English village he will not be able to live decently upon what by any stretch of imagination can properly be described as pharmacy. I have known more than one man fail in the attempt, and I remember none who has succeeded. One cannot easily prove a negative, and I admit exceptions; but, speaking from a fairly large experience, I adhere to my opinion that Mr. Saunders has "opened upon a false scent." That most villages are already provided with pharmacists (which seems to be what Mr. Spafford means), and that in the few that are not there are no suitable premises, are statements I cannot accept. I could instance considerable groups of villages in more than one neighbourhood in which there is no pharmacist, and no good opening for one.

"Education,"

or what passes for it, appears to be "in the air"; echoes of your Educational Number not unnaturally still linger in your correspondence columns. "Jay Mack" speaks for technical, Mr. W. Shakespear for general education, and each, from his own point of view, speaks admirably. What is more remarkable is that every book I take up as it comes from the circulating library appears to contain some reference to that particular aspect of the subject which most interests me, until I begin to wonder whether I am not morbidly obsessed by it. Thus Mr. Squire in his "Life and Letters" has a paragraph on the druggist's shop as the last surviving refuge of the Latin language, and Mr. Burgin, in his "Memoirs of a Clubman" (a most amusing book, by the way), repeats, as applicable to the present state of things, what a Louvain principal is reported to have said of Greek: "You see me, young man; I never learnt Greek, and I don't find that I ever missed it. I have had a doctor's cap and gown without Greek; I have ten thousand florins a year without Greek; and, in short, as I don't know Greek I do not believe there is any good in it." I could add to these quotations, but they are enough. It is clear that the classics are pretty generally regarded as in a bad way.

Montpellier

claims, as your French correspondent reminds us, to be the seat of the oldest school of medicine in the world, but the date for the celebration of its seventh centenary is puzzling. Nobody, I believe, knows the exact date of the founding either of this school or of that of Salerno, but surely they are both a good deal more than 700 years old. Even in the ninth century the teaching of medicine at Salerno had earned for that city the title of Civitas Hippocratica. The Benedictine monks had a hospital there in the first quarter of the century, and Alphanus, afterwards Bishop of Salerno, was a teacher in it. This makes the school at Salerno older than that at Montpellier, which is not supposed to have been in existence earlier than the tenth century. Round each of these schools a university grew up; that of Salerno was founded in 1150, that of Montpellier was constituted by a papal bull in 1289; its sexcentenary was celebrated in 1890. Montpellier has the greater claim on us, since many of our most famous men studied there, but it must, I fear, yield precedence to its rival, whether as a medical school or as a university, and, as I said, the date November 5, 1921, for the celebration referred to needs explanation.

An Old Idea.—In a recent issue of "Ideas" appears, under the title "Confessions of a Quack," a circumstantial narrative of the launching of a market-place medicine-man. The narrative bears a generic likeness to one in the *C. & D.*, I., 1906, p. 147, the procedure in each case being similar. Probably it is difficult to take up this calling in any other way.

Panel Practitioners' Irregularities.—Speaking at Woolwich on August 30, Sir Kingsley Wood, Parliamentary Secretary to the Ministry of Health, said that the Department was still receiving complaints of doctors' failure to provide proper treatment, of unfair discrimination between panel and private patients, of fees being charged to panel patients, and of irregular certification. The worst system that could possibly be adopted would be a State medical service.

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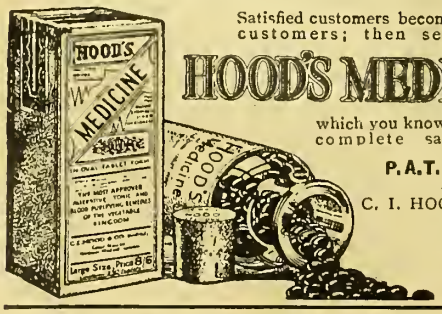

Editorial Articles

"C. & D." Indemnity Scheme

We are pleased to be able to make an important announcement regarding an extension of the benefits which this journal offers to subscribers. It is that **the Proprietors of "The Chemist and Druggist" are entering into an agreement with the Ocean Accident and Guarantee Corporation, Ltd., by which that Corporation will indemnify each annual subscriber who is eligible, up to 500*l.*, against legal liability in respect of the principal accidents arising in the course of dealings with the public.** The details are given elsewhere in this issue. We invite our readers to study them carefully, and, if they are eligible, to take advantage of the offer. Apart from the reputation for enterprise which the *C. & D.* has earned and maintained for many years, we have desired to benefit the many chemists in business who are exposed to the risk of claims for accidents and who are not at present covered by insurance. The business of a chemist and druggist is exceptional in that the risks are inherent to the trade and are dependent upon the human element. It is on this account that the personal qualification of the pharmacist is made the keystone of the Pharmacy Acts. It will be noticed also that claims for optical errors are included in the indemnity. Accidents, especially serious ones, occurring in a chemist's business are fortunately rare, because the whole training of the chemist is one which makes for carefulness and alertness in conducting business. The risk, however, forms an ever-present menace to the peace of mind of even the most conscientious pharmacist. Our calculations show us that there must be several thousand chemists in business who are not insured against the risk referred to. It is to provide against this risk and to increase the benefits we offer to our subscribers that we have devised the 500*l.* free indemnity scheme. The features of the plan are that one of the best-known insurance corporations undertakes to indemnify *C. & D.* subscribers against legal liability for accident claims, the insurance premium being paid by the Proprietors of The Chemist and Druggist. **This benefit is offered to subscribers free of charge, and will commence in October.** We desire to emphasise the fact that it has been drawn up so as not to compete with existing insurance projects; it is particularly designed to benefit chemists who are not at present covered by insurance. Chemists carrying on retail business in the United Kingdom are eligible for the benefits so long as they pay an annual subscription of 20*s.* to The Chemist and Druggist. The term "chemist" is used in the sense employed in the Pharmacy Acts. It includes pharmaceutical chemists and chemists and druggists, as well as the executors of chemists and limited companies, so long as their businesses are conducted in conformity with the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908. In Ireland we include pharmaceutical chemists, chemists and druggists, and registered druggists whose qualifications are those laid down in the Irish Pharmacy Acts. As a chemist may be carrying on business at more than one address, the particular business to be covered by the indemnity policy will require to be stated on the application form. One subscription to the *C. & D.* will cover one business, but a chemist with branch pharmacies may obtain an indemnity for each shop by subscribing for that shop, which, of course, must be carried on in conformity with the Pharmacy Acts. The plan we have

adopted in commencing the scheme is to send out indemnity application forms with notices for renewal of subscriptions that will expire in October, which our subscribers who wish to take advantage of our offer must fill in. New subscribers may fill in indemnity application forms, which we will supply, but in any case the policies will not be issued until October. Each policy will continue in force up to the date (which will be stated in the policy) when the next subscription to the *C. & D.* becomes due. There will be a separate policy for each insured subscriber, and the conditions will be clearly laid down in the document. Insured subscribers will particularly bear in mind that upon receiving notice of any accident or claim they must at once write direct to the Ocean Accident and Guarantee Corporation, Ltd., who will furnish a form upon which full particulars must be supplied. This is one of the special features of the scheme. The advantages of direct dealing with the Corporation are obvious; there will be less delay, and the insured person obtains the advice of the expert staff of the Corporation. It will be realised that the business of an insurance corporation is very highly specialised, and that proper consideration and investigation of claims require the services of a specially trained staff. Provision is also made for arbitration in case of differences between the Corporation and the insured. It will thus be seen that the scheme has been devised in a broad-minded spirit, our intention being to extend the benefits to as large a number of chemists as possible. We have no doubt that our enterprise will be rewarded by the increased confidence of our subscribers, and that it will extend the subscription-list of THE CHEMIST AND DRUGGIST, already the most influential drug-trade journal in the world.

The New American Customs Tariff Bill

SINCE the article under the above heading appeared in our issue of July 16, further details have now been published with regard to this Bill. It was finally passed by the House of Representatives on July 21, but, as forecasted in our previous article, several amendments were made during the passage of the Bill through the House. The Bill is now under consideration in the Senate, but it is anticipated that further amendments may be made by the Higher House before it finally becomes law. The Bill would come into force on and after the day following the passage of the Act by the Senate. An important point in the proposals is for the adoption of an "American valuation" for the assessing of ad valorem duties. At the present time, ad valorem duties are based upon the actual market value or wholesale price at the time of exportation to the United States in the principal markets of the country whence exported, whereas the new Bill proposes that ad valorem duties shall be taken on values found by the appraising officers to be the value in the United States. The report on the Bill from the Committee on Ways and Means states: "The wholesale selling price in the open markets of the United States of comparable and competitive domestic products, where there are such, is made the dutiable value. In cases where there are no such products, appraising officers will ascertain the value of the imported merchandise for sale, whether or not there shall be an actual sale, for consumption or use in the United States. The value in the United States of prior importations of the same or similar kinds of goods would be a factor in such cases in determining the value of the particular importation undergoing appraisal. In the case of merchandise not sold, such materials made abroad and consigned to a branch house or factory or agent in the United States for further manufacture and sale of the completed article in the United States, the dutiable value can be ascertained by deduction of the elements of increased value from the selling price of the finished article." This very important ruling seems to lay itself open to a good deal of controversy and difference of opinion between the importer and the appraiser, but, of course, is done with the idea of fully protecting the American manufacturers against competition from countries with greatly depreciated currencies. As the Bill stands to-day citric acid has had a further lift up and now appears on a 12c. per lb. basis, instead of 5c. as at present. Menthol is to go on a 25c. ad valorem basis, but camphor, which was at first proposed for a similar ad valorem duty, is put on a 6c. per lb. basis (as against 5c. in the present tariff), which is the same as the 1909 tariff. Santonin, now on the free list, is to be taxed 75c. per lb., and strychnine, also free at present, is to be 15c. per ounce. Calomel and other mercurial preparations, now 15 per cent., are increased to 30 per cent. ad valorem. Caffeine, $1.50 per lb. (now $1 per lb.), turmeric and cardamoms, both on the free list now, are to be taxed 10c. per lb. On the whole one cannot help feeling that the present time is hardly favourable to such heavy increases in duties, when one reads of the undoubted fear of the United States losing opportunities of foreign trade owing to the abnormal value of the dollar. No country can sell its goods abroad without buying from those other countries, and the United States is already stifled and cramped by its huge accumulation of gold, which, happy as the position may sound, can be, and is, a deterrent to foreign trade. The Americans realise this just as fully as the less fortunate countries, and there is no doubt that there is a considerable feeling that the new Bill may be shelved for a while by the Senate before being finally passed.

What are Fine Chemicals?

JUDGING from inquiries we have made, it is not anticipated that the "key" list of products scheduled under Part 1 of the Safeguarding of Industries Act will be available for at least another fortnight, so that the interval between its publication and the date of operation of the Act (October 1) may be a few days only. No notice will be given of its publication, but it will be obtainable from H.M. Stationery Office, Imperial House, Kingsway, W.C. 2, as a special Government publication, or as a supplement to the "Board of Trade Journal." As the list will probably comprise five to six thousand products, it will probably not be possible for us to publish it in full, so that advance orders should be placed with the Stationery Office. It is to be hoped that the Act will work with a minimum of friction, but that many importers will be put to considerable trouble is evident, particularly in the case of goods which were ordered prior to October 1 (when there was no duty), but which had not arrived in this country until after that date. In these instances the importer would not have made provision for the tax, and it is suggested that a period of grace should be given. It has, however, been definitely stated by the Board of Trade that all goods included in the "key" industries schedule will be liable to duty if they arrive on or after Saturday, October 1, in spite of the fact that they may have been on order previous to that date. The inevitable delay in the publication of the list is regretted by none more

than the chemical importer, who is naturally anxious to see what the list of synthetic organic chemicals contains. We have been asked by several subscribers regarding the scope of the term "fine chemicals" used in the "key" schedule as regards packed goods, such as tablets and pills of a proprietary nature which are imported chiefly from the Continent and the United States We have been officially informed that such products are not covered by the Act—*i.e.* they are not liable to the duty. Such goods are provided for under Part 1, Section 4, which states that :

Where an imported article is a compound article of which an article liable to duty under this section is an ingredient or forms part, no duty shall be charged under this section in respect of the compound article if the compound is of such a nature that the article liable to duty has lost its identity, and any dispute as to whether an article has lost its identity shall be determined in like manner as disputes as to whether goods are goods specified in the schedule to this Act.

That is, the arbitrator appointed by the Treasury will decide. Certain proprietary products, consisting entirely of, say, a pure medicinal chemical, like diethylbarbituric acid, and sold under a brand, are, of course, "covered" by the Act. We suggest that when the Act is in operation the Treasury decisions in regard to interpretations should be made public for the guidance of the trade.

South African Dagga

THE question of dagga smoking among the natives of the Cape is again a matter of public interest, as will be seen from the paragraph published in our issue of July 30. Since then the Cape Provincial Council has been asked whether it is within their power to introduce legislation dealing with the subject. The official reply was :

Dagga is a poisonous plant, which is injurious to human beings, but is not a "noxious" weed in the sense of "noxious" as applied to weeds such as burweed, dodder, etc., which are noxious only from an agricultural point of view. Dagga does not therefore fall within the meaning of the second schedule to the Financial Relations Act, No. 10, of 1913. This being so, it is not within the power of the Provincial Council to introduce legislation declaring dagga a "noxious" weed. It is understood that legislation affecting dagga is under contemplation by the Union Government. The plant has already been declared a poison under the Governor-General's Proclamation No. 165 of January 30, 1917.

Mr. E. M. Holmes, F.L.S., has also looked into the question, and sends us the following report :

In South Africa the hemp (*Cannabis sativa*) is known under the name of dagga or common dagga, but there are two other plants which also bear the same name of dagga, which are totally different in character. One of these is known as wild or red dagga (*Leonotus Leonorus*), and the other as klip or rock dagga (*Leonotus ovatus*). The first is said to be given the name because its leaves are smoked by the Hottentots, and it is said to produce intoxication or delirium. The chief use of the plant by the natives, especially by the Fingul tribes, is as a remedy for snake-bite. The plant does not appear, however, to have received the chemical examination that it deserves, and is apparently classed by the legal authorities as if it were as dangerous as the true hemp. According to Dr. Andrew Smith in his "Contribution to the South African Materia Medica" (p. 70), the tincture made from the flowers has been found useful for coughs and pulmonary complaints generally, five to ten drops being used as a dose for an adult, and a teaspoonful for a severe headache. In nervous headaches it is said to be of great benefit. The plant itself is rather a handsome one, being 7 ft. high, with oblong leaves about 4 in. long and ½ in. to ¾ in. wide, and showy whorls of bright orange-coloured flowers, which, like most of the *Labiatæ* to which it belongs, are two-lipped. The other species, klip dagga, is a smaller plant growing among stones and rocks, but has only one or two rings of orange-coloured flowers, and its leaves are smaller, about 2½ in. by 2 in., ovate and crenate, resembling those of the dead nettle. It is considered to have the same properties as the red dagga, but in snake-bite the roots of the red dagga, which are large, or rather the bark of the root, is employed, while the leaves only of the klip dagga are used. It is hardly likely that these plants would have received the name of dagga, unless they possessed some narcotic property, but before being put in the same class as the true hemp the chemical constituents of the plant ought to be determined and their physiological action more clearly defined.

It is evident from the above report that dagga is a plant requiring further chemical and physiological research before it can be classed as a dangerous drug or legislated against, and there is no better authority to take up the matter than the Imperial Institute. As Mr. Holmes states, there is no evidence to show that dagga produces the dangerous effect of cannabis indica. Moreover, it would be a very difficult matter to legislate against a drug that grows wild, is used only by the natives, and not sold like true cannabis indica. At the same time further investigation is required.

Scientific Progress

Temperatures under this heading are on the Centigrade scale.

Heeria Berries, the fruits of *Heeria paniculosa*, N.O. *Anacardiaceæ*, habitat South Africa (Zululand in particular), have recently been examined at the Imperial Institute (Bul. No. 1, vol. xix.). The fruits are flat berries, ⅜ in. long, irregularly ovoid, and covered with a wrinkled and shiny black skin. The pericarp encloses a single seed. The pericarp yielded 5.5 per cent. (of the weight of the entire fruits) of volatile oil with the following characteristics : Colourless, mobile; s.g. at 15/15° C., 0.832; optical rotation $\alpha_D + 3.75°$; acid value, 1.6; ester value, before acetylation, 4.2; after, 14.8. The conclusions were that the oil contains principally terpenes, and as it has no distinctive odour it is of little commercial value. Fixed oil from the kernels equivalent to about 30 per cent. of the entire fruit was obtained. The oil was viscous, clear, and dark brown, with an aromatic, not unpleasant, odour. It was considered unlikely that the treatment necessary to remove the volatile oil before extracting the fixed oil would be remunerative, therefore the prospect of the fruits finding a market as a source of oil does not appear favourable.

A New Method for the Estimation of Morphine.—Trifon Ugarte ("Journ. de Pharm. et de Chim.," February 16, 1921). One gram of powdered opium is introduced into a flask of 200 c.c. capacity, and 10 c.c. of alcohol (67 per cent.) is added. The mixture is placed on the water bath for five minutes, and then filtered. The filtrate is collected in a crystallising pan with a diameter of 7 centimetres and 2 centimetres deep. The insoluble portion is treated successively three times as described, and the filtrates collected in the crystallising pan. The collected liquids are evaporated on the water bath, and the dry residue is maintained for 15 minutes at a temperature of 100°, to oxidise the resins, and thereby render them insoluble; 5 c.c. of cold distilled water is now added to the residue and filtered into a flask having a capacity of 200 c.c. This operation is repeated three times, and the collected 20 c.c. of liquid is evaporated on the water bath. The residue is dissolved in 2 c.c. of water saturated with morphine, and under agitation 3 c.c. of normal solution of ammonia saturated with morphine are added, as well as 10 c.c. of ether, and the whole shaken. The shaking causes a rapid fall in temperature, due to the evaporation of the ether. A further addition of 20 c.c. of ether is made, and the mixture set aside for 30 minutes. The morphine now crystallises out in the form of small granules. After adding 10 c.c. of ether the mixture is filtered, the crystals of morphine are removed by means of a glass rod provided with an indiarubber cap, and by the use of a jet of distilled water saturated with morphine and ether. The filters are then dried at a temperature of 100° to 105° and weighed.

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£500 Free Indemnity for Chemists

THE PROPRIETORS OF THE CHEMIST AND DRUGGIST are entering into an Agreement with The Ocean Accident and Guarantee Corporation, Ltd., of 36-44 Moorgate Street, London, E.C. 2, by which that Corporation will indemnify each annual subscriber to THE CHEMIST AND DRUGGIST, who is eligible, up to £500 against legal liability to pay for :—

(*a*) Accidental bodily injury to or illness or death of any human being not in the service of or related to the Insured nor claiming compensation from the Insured under any Workmen's Compensation Act
(*b*) Accidental bodily injury to or illness or death of any animal not belonging to or in the charge or under the control of the Insured or any servant or agent of the Insured
(*c*) Accidental damage to property not belonging to or in the charge or under the control of the Insured or any servant or agent of the Insured

Caused by an error committed at premises to which the insurance applies by the Insured or by any person in the service of the Insured in :—

(1) Compounding any medicine or selling by retail only any article usually sold by Chemists or Druggists.

(2) Sight testing in ordinary course of business or selling by retail only spectacles or eyeglasses.

The £500 Free Indemnity applies to subscribers of 20/- to THE CHEMIST AND DRUGGIST who lawfully are carrying on the retail business of a pharmaceutical chemist, chemist and druggist, or registered druggist, in the United Kingdom, and who, if in Great Britain, are either

(*a*) pharmaceutical chemists or chemists and druggists keeping open shop for the sale of poisons in accordance with the provisions of the Pharmacy Act 1868, as amended by the Poisons and Pharmacy Act 1908 ; or
(*b*) executors, administrators or trustees of pharmaceutical chemists or chemists and druggists carrying on the business of chemists in accordance with the provisions of the Pharmacy Act 1868, as amended by the Poisons and Pharmacy Act 1908 ; or
(*c*) bodies corporate, and in Scotland firms or partnerships, carrying on the business of chemists in accordance with the provisions of the Poisons and Pharmacy Act 1908 ; or

if in Ireland, are

pharmaceutical chemists keeping open shop for dispensing and for the sale of poisons, or are chemists and druggists or registered druggists keeping open shop for the sale of poisons in accordance with the provisions of the Pharmacy Act (Ireland) 1875, or the Pharmacy Act (Ireland) 1875 Amendment Act 1890, as amended by the Poisons and Pharmacy Act 1908.

The £500 Free Indemnity is subject to the conditions of the Policy and does not apply to those subscribers who are covered wholly or in part as to the risks mentioned by any other insurance or indemnity scheme.

The Proprietors of THE CHEMIST AND DRUGGIST reserve the right to refuse to extend the benefits of the £500 Free Indemnity to any subscriber without giving any reason for the refusal.

When paying your Subscription fill in the Form of Application for the Indemnity, and in due course the Policy of Indemnity will be forwarded.

Medical Gleanings

Alum for Internal Cancer

Dr. Reginald Larkin, in "The Lancet" (I., 1921, p. 667), states that since August 1916 he has been treating with apparent success cases of internal cancer, as diagnosed clinically, as they occurred in general practice. This fact, and the contrasted failure of treatment of many cases of external cancer with the same remedy, suggests a new clue in the treatment of cancer. He believes that carcinoma is almost, if not always, associated with some form of rheumatism which yields to a course of alum taken internally. The effect is not observed in the subjects of external cancer associated with a gouty disposition, and he has found that cancer of the rectum, anus, and bladder does not respond to this treatment. The prescription which he recommends is :

Alum. sulph.	gr. ij.
Mag. carb. levis	gr. v.
Potass. citrat.	gr. v.
Tr. opii	♏iij.
Aq. chloroformi	ʒij.
Aq. ad	℥j.

ʒj. t.d.s.

Thirty drops of liq. bismuthi et ammon. citrat. is added in the case of gastric cancer.

Treatment of Hæmorrhoids

Dr. J. C. Lyth, in the "British Medical Journal" (I., 1921, p. 265), recommends the following method of treatment for the cure of hæmorrhoids without operation, which, he considers, is not always successful, usually unnecessary, and rarely justifiable :

1. The bowels must be moved the last thing at night before retiring. It may be difficult to alter the usual habit of morning defæcation, but it is essential, and can be contrived by suitable aperients.

2. It is hardly necessary to say the bowels must be moved every night, but a loose action must be avoided. Even a slight degree of constipation so long as a nightly action of the bowels is secured, while not so good as an easy action, is infinitely preferable to the slightest diarrhœa. This means care and discretion in the use of aperients.

3. After the motion, and after gentle sponging with tepid water, calamine powder is to be applied in the following way: it is to be freely and thickly placed (not merely sprinkled) on a sanitary wool and gauze pad. Care should be taken to see that there is a sufficient quantity of the powder (say a couple of teaspoonfuls) on the exact part of the pad which will remain in contact with the piles when the tapes are tied round the waist. It is necessary that the pad should be pulled firmly up into position.

Fresh calamine should be applied in the morning, though, if there is discomfort during the day, an ointment—such as hamamelis—may be substituted. Ointments, the writer remarks, are no more than palliatives and do no permanent good. It will be found that in about a fortnight the piles will be sufficiently shrunken and painless for the daily pad to be dispensed with.

Curing Piles without Operation

Mr. Arthur S. Morley, F.R.C.S., in the "British Medical Journal" (I., 1921, 365), gives the following particulars of his method of curing internal piles with carbolic-acid solution :

The piles are injected *in situ* through a Kelly's speculum by means of a suitable syringe. The syringe I recommend is a modification of Dawson's dental syringe, which is long enough to use through the speculum. It is stocked by Krohne & Sesemann, Allen & Hanburys, and others. The solution I use consists of 20 per cent. carbolic in equal parts of glycerin and water. About 5 minims of this solution is injected into each pile in such a way that the fluid is lodged near the centre of each pile. In the case of a very large pile a few more drops may be injected into its base. A few seconds after injection the pile swells considerably, and its surface turns white. The needle should be kept in position until these changes have been observed; because otherwise some oozing is likely to occur and the fluid will be washed out with the blood All the piles may be injected at one sitting. Care must be taken to inject too little rather than too much of the solution, because if too much is used there will be a more violent reaction and considerable pain may result. If the correct amount and the right strength of solution is used, there is not usually any pain worth mentioning. The patient must be warned that in the unlikely event of his piles coming down after injection, he must not delay in washing them with cold water, greasing them with vaseline or any ointment, and gently returning them. If this is not done, and the piles happen to come down after injection, they may continue to swell outside the anus and become strangulated. Apart from this, no treatment other than a laxative is required. The injections are repeated at weekly intervals, until examination with the speculum shows no pile present.

Treatment of Scabies

Dr. Svend Lomholt ("The Lancet," II., 1920, p. 1251) describes the treatment of scabies, and gives the formula for an ointment which has been successfully used in Denmark during the past ten years. The preparation of the ointment, elaborated by Mr. Marcussen, pharmacist, of the Copenhagen City Hospital, is as follows :

(1) One kilo. of sublimated sulphur is dissolved at a gentle heat in 2 kilos. of a 50-per-cent. solution of potassium hydroxide. This makes a clear, yellow solution.

(2) Two hundred and twenty-five grams of vaseline and 225 grams of anhydrous lanolin are carefully mixed, without heating.

(3) To this mixture 375 grams of the solution of sulphur in potassium hydroxide solution mentioned above are added.

(4) Fresh zinc hydroxide is prepared by mixing 28 grams of zinc sulphate and 40 grams of a 20-per-cent. solution of sodium hydroxide, and this is afterwards added to the ointment.

(5) Liquid paraffin is added to obtain a total weight of 1,000 grams.

(6) Five grams of benzaldehyde are added to check the somewhat disagreeable smell of sulphuretted hydrogen. The patient should first have a hot bath, and, after wiping himself thoroughly, rub his whole body, except the head, with the ointment. Hard rubbing is neither necessary nor desirable. The patient should wait a quarter of an hour, then go to bed, though the treatment can well be ambulant. The next day, after another bath, the cure is usually complete.

The Treatment of Sprue

Dr. Aldo Castellani, of the London School of Tropical Medicine, reports in the "British Medical Journal" (I., 1921, 338) that the administration in sprue of large doses of sodium bicarbonate in conjunction with the usual dietetic measures gives satisfactory results in a large number of cases, especially as regards the intestinal symptoms of the malady. The routine method of treatment adopted is as follows : Keep the mouth scrupulously clean by using a mouthwash :

Glycerin. alum.,	
Glycerin. ac. carbol....	aa. ʒiv.
Aq. rosæ ad	℥iv.

One teaspoonful to a tumbler of water.

When painful patches on the tongue are present the following is useful :

Cocain.	gr. v.
Ac. carbol.	ʒj.
Glycerin. boracis	ʒvj.
Aq. rosæ ad	℥iv.

Half to one teaspoonful to a tumbler of water.

In addition, sodium bicarbonate is given by the mouth or by intravenous injections of a 2 to 4 per cent. sodium bicarbonate solution. The formula for the powders is :

Pulv. cinnam.	gr. ss.
Pulv. ipecac.	gr. ss.
Pancreatin, papain or taka-diastase	gr. iij.
Salol	gr. v.
Sodii bicarbon.	ʒiij.

Give in half a tumbler of water. A powder to be taken three times daily for several weeks. Usually it is sufficient to give the medicament by the mouth, but sodium bicarbonate may be required intravenously as well. Ten to 20 oz. of a sterile 2 or 4 per cent. solution is given every day or every other day until twelve injections have been given.

From Old Newspapers

We are indebted to a subscriber for a copy of the "Southampton Town and County Herald," volume III., No. 137, dated "Monday, March 6, 1826." This weekly journal—of which, by the way, the general catalogue of the British Museum contains no mention—measures 22 × 15½ inches, comprises four six-column pages, and is printed on thick paper suggestive of the Bank of England note-paper that has been made in the neighbourhood of Southampton since the early years of the eighteenth century. The journal bears the imposing sub-title, "Isle of Wight Gazette, and General Advertiser for the Counties of Hants, Wilts, Dorset, and Sussex, &c., &c.," and was sold at 7*d.*

Many of the items of news that were read by the inhabitants of Southampton (then a town with a population of about 14,000) have a curious interest to-day. "Large quantities" of base silver were in circulation. The issue of 1*l.* notes by the Scottish chartered banks in the preceding year had reached "the enormous proportion" of 111,000*l.* Liston was appearing at the Theatre Royal in "Paul Pry." A ship had just arrived at Cowes from Batavia, laden with spices and other commodities, the voyage having been begun in the previous October. A Mr. Forbes, "Oxford Street, Middlesex, druggist," was in the list of bankrupts. "Common-sized fowls" were 7*s.* a pair in London—an "enormous price." Smoking was "again coming into fashion" after "nearly fifty years." A "safety" gig had been invented. "A gentleman, resident near Liverpool," had discovered "a new lasting blue colour, on chymical principles . . . capable of resisting strong acids and alkaline leys." And two-thirds of a column was occupied by a detailed account of the destruction of the elephant at Exeter Change, London, which had shown signs of madness, even after the administration of 1-cwt. doses of "salts." Efforts to dispatch him with "a quantity of corrosive sublimate in a mess of hay" being defeated by his "sagacity," the poor beast was finished off by rifle-fire.

The advertisements occupy four columns of the front page and about two columns of the third. Those on the front page are, as a rule, longer than those on page three, and are displayed in several kinds of type. The four columns comprise 72 inches, and of this space medicines and other articles then sold by chemists occupy 27 inches. Prominent among the firms represented are Randall & Son, whose announcement runs as follows:

The following articles which have been so decidedly approved by the numerous and respectable Families who have been in the habit of using them for many years, continue to be prepared with the same care and attention as heretofore, by the Proprietors,

W. RANDALL AND SON,
CHEMISTS, SOUTHAMPTON.

ANODYNE OPODELDOC, for Rheumatic and Paralytic Affections, Chilblains, Sprains, Bruises, &c. &c.—In Bottles at 2*s.* 9*d.* and 5*s.* 6*d.*, or in cases containing four 5*s.* 6*d.* bottles for 1*l.*

DR. ALLEN'S ANTIBILIOUS PILLS, a safe and gentle aperient, requiring no alteration of diet or confinement.

MAGNESIA LOZENGES for the Heartburn.

CONCENTRATED ESSENCE of GINGER; much esteemed by persons of Gouty habits; and useful in cases of Indigestion, Flatulence, Nervous Headache and Giddiness. It is a useful addition to the Soda and Chalybeate Waters.—In Bottles at 2*s.* 9*d.* 6*s.* and 10*s.* 6*d.* each.

FINEST BERMUDA ARROW ROOT, warranted genuine, in packets containing one pound each, 4*s.*; or canisters 4*s.* 6*d.*

WHITE MUSTARD SEED, of the finest quality, which is so much in request at present, as an internal remedy for Rheumatism, Dyspepsia, &c.

Two 2½-inch spaces are occupied by "Butler, Chemist, 4 Cheapside, London"—one with Dr. Fothergill's Tonic Female Pills and Nervous Drops, and the other with Perry's Essence (for toothache and earache) and Morris's Brunswick Corn Plaister. John Burgess & Son explain the merits of their Essence of Anchovies and their "new sauce"; Dr. Bateman's Pectoral Drops, Dicey's "Anderson's, or the True Scots' Pills," and Betton's British Oil form the subject-matter of another space; and a Mrs. Lloyd Gibbon, "of London," announces "anatomical stays." The most conspicuous advertisement is one by Price & Gosnell, "Perfumers to his Majesty, No. 12 Three King Court, Lombard Street, London," whose space is devoted to toilet requisites. At the head of the space is a full-length representation of a dark-hued lady holding up with one hand tresses that reach to her ankles, while with the other she extends what appears to be an olive branch. After extolling the virtues of the firm's Macassar Oil, the advertisement proceeds:

Messrs. PRICE and GOSNELL respectfully beg to caution the Public at large against the pretensions of base impostors, (falsely styling themselves importers,) who imitate every popular article produced; and as "some persons have been imposed upon by these miscreants," PRICE and GOSNELL, the sole Proprietors and only Importers, (which has been proved by the Import List daily published, and sworn before the Lord Mayor,) of the GENUINE MACASSAR OIL, wishing to protect the Nobility and Gentry from imposition, have, at a very great expense, affixed a label with an engraving from a plate of extreme difficulty of execution, by Sir William Congreve, on the outside of each bottle, with their Names and Address in full thereon, which Purchasers are particularly requested to observe; and, as a further security, every genuine bottle is signed in *red ink* in their own handwriting, to counterfeit which is Felony.

Writing this kind of advertisement must have been very fatiguing; and we cannot help admiring a sentence in the eulogy on the same firm's Patent Naples Cream, which, we learn, "renovates beauty when on the decline; realises it where before absent, and sustains it in pristine splendour to the latest period of life."

Another old newspaper, the "Belfast News Letter" of December 24, 1770, has been sent us by Mr. William C. Dobbin, Ph.C. (William Dobbin & Co., Ltd., 45 North Street, Belfast). By far the most impressive of the advertisements it contains is that of a certain Mr. Anderson, which runs as follows:

WILLIAM ANDERSON, Druggist and Apothecary, has just imported a large assortment of fresh Medicines, which he is enabled and determined to sell upon as low Terms as any in this Part of the Kingdom; and for Ready Money at Dublin Prices. He embraces this Opportunity of gratefully acknowledging the kind Encouragement he has hitherto met with; which enables him to carry on Business more extensively: And as he purposes always to pay the same Care and Attention as he has done since his commencing Business, hopes for a Continuance of the Countenance of his Friends and the Publick as long as his Conduct shall appear to merit it.

Said Anderson will, upon Terms, take a sober young Lad (properly qualified) Apprentice to the Apothecary Business.

The delicate flattery of Mr. Anderson's customers is cleverly conveyed, as also is the suggestion that he must have an apprentice in order to cope with his increase of business. He had, apparently, a powerful rival in one James Magee, a bookseller, who occupies a good deal of space with the following effusions:

For the Benefit of the PUBLIC.

Sold by JAMES MAGEE, Bookseller in Belfast.

FISHER'S Imperial Royal Golden SNUFF.

WHICH infallibly cures all curable Disorders in the Head and Eyes, especially Deafness and Noise in the Ears; . . . instantly removes Drowsiness, Sleepiness, Giddiness, Vapours and Apoplexy; Evil in the Eyes, or any Humour in them; Dropsies in the Head; the Catarrh or Dripping from the Head on the Lungs, which causes tickling Coughs; it brings away all Mercury, if lodged in the Head; is proper for all Persons to take after the Small-pox, Measles and Fevers, as it purges the Head and carries off the foul Humours, which too frequently lodge after these Distempers and fall upon the Eyes, causing a Weakness, if not Blindness: it cureth the Polypus in the Nose. For the Good of the Poor three Papers are sold for a British Six-pence. Six Papers cure most Distemper in the Head and Eyes. A Bill of Directions is given therewith, signed J. FISHER. James Magee sells Ointment that cures the Itch at once rubbing with the utmost Safety. The Box, 1*s.* 7*d.* halfp.

Turlington's Balsam of Life. The Bottle, 2*s.* 2*d.*

British Cephalic Herb Tobacco. The Packet, 6*d.* halfp.

DOCTOR RYAN'S
PECTORAL ESSENCE of COLTSFOOT, being a speedy Cure for Coughs, Colds, Asthmas, Phthisic, Wheezing, difficult Breathings, even when so far advanced as not to be cured by any other Medicine. They gently open the Breast, and immediately give Liberty of Breathing without any Danger of taking Cold; . . .

Prepared and Sold only by Mr. RYAN, Surgeon and Manmidwife, in Cope Street, near Fownes's-street, Dublin, Price 3*s.* 3*d.* the Bottle, wrapped up in a plain printed Direction, and to prevent Counterfeits, sealed with his Arms and signed by his own Handwriting.

To Surgeon RYAN in Cope-street,

In Gratitude to you and for the Good of Mankind in general I Capt. PETER M'LAUGHLIN of Fleet-street, Dublin, having lately been violently afflicted with a consumptive Cough, attended with an hectic Fever and the most alarming symptoms of a galloping Consumption, which reduced me so very weak that I was not able to turn myself in Bed; so that I was thought by all who saw me to be in a very dangerous Way, though I had taken abundance of Medicines for my Disorder by the Prescription of some of the most eminent of the Faculty, who was then attending me, and could not find any Means of Relief, till happily I was recommended to you, for your Pectoral Essence of COLTSFOOT, and by taking one Bottle thereof, I found some Relief, and by continuing it a few Bottles more, to a Miracle perfectly restored me to my Health again. Therefore; as a grateful Acknowledgment of Divine Providence and for the good of Mankind in general desire this may be made Public.

Mr. M'Laughlin's gratitude was evidently stronger than his grammar.

There is also an announcement that "bottles" for "the Oil of Vitriol Manufactury at Lisburn" are required: 1*s.* 7½*d.* each is offered for them by firms in Belfast and Lisburn, and 1*s.* 1*d.* each by firms in Londonderry, Newry, and Coleraine.

To these extracts may be added the "finds" of a correspondent (19/8), who, while on a holiday, had the curiosity to search through a file of the "Kentish Gazette" with the object of seeing what proprietary remedies were advertised in the provincial weeklies a century ago. As befitted an epoch when the newspaper was a luxury, and the reading public less numerous and more exclusive than nowadays, the recommendation of Royalty or aristocracy was a leading feature of the "holding out." Morris's Golden Antibilious or Family Pills, for instance, were prepared by a "chemist to the Royal Family" in Kensington, who also offered the "Royal Brunswick Corn Plaister, prepared from a receipt belonging to Her late Majesty" (Caroline of Brunswick, "the injured Queen of England," had just died), given to the chemist by "his late Royal Highness the Duke of Kent, and now in general use by the Royal Family." Historians may note, by the way, that the House of Brunswick was apparently "generally" afflicted with corns. Another advertisement seems to indicate that the idea of making the customer a collaborator had already been studied by enterprising firms. An announcement respecting Goldbold's Vegetable Balsam, "by the King's Royal Patent" (sold by Newbery, Sutton, Sanger, and others), was strengthened by the pleasing intelligence that "the Right Hon. Lord Dudley and Ward and others of the Nobility and Clergy, &c., recommended the proprietors to lower the price of the medicine to all such as might wish to purchase at the reduced price of one guinea the quart, 10*s.* 6*d.* the pint, and 5*s.* 6*d.* the half-pint, except persons of fortune, who will readily pay the accustomed price of 18*s.* per pint." Even a minor title was not to be despised as a recommendation. Barry & Co., of Bristol, assured their readers that the "discoverer" of their "entirely vegetable" Life Pills, the Rev. C. Carrington, Vicar of Berkeley, was "one of H.M. Deputy-Lieutenants for the County of Gloucester."

Every chemist who has read the "Ingoldsby Legends" will remember how the Black Mousquetaire was massaged with "Steer's opodeldoc, joint-oil and Goulard," by the "sweet Demi-nun," after his battlefield mishap; and it was possibly in this old Canterbury paper (for the author was a native of the cathedral city) that Barham saw the advertisement of "Steer's." "Daffy's Elixir" has also been handed down to posterity in at least one serious work—W. H. Russell's book on the Crimea. Dr. James's Powder, recommended for "Measles, St. Anthony's Fire, &c.," was, naturally, to be found in the "Kentish Gazette."

A war usually creates an aftermath of difficulties in the way of packing, and the Napoleonic campaigns were no exception to the rule. B. H. Inglish, 164 Strand, had to put up his "True Scotch Pills" (invented by Dr. Anderson, physician to King Charles I.) in boxes of "various sizes, shapes, and colours," owing to the difficulty of importing such containers. Many other quaint bits of phraseology strike the eye. "Smith's Genuine Leamington Salts" were sold by the proprietor "in his Pump Room." Barclay's Original Ointment "for that disagreeable disease, the Itch," was sold for 1*s.* 9*d.* at 95 Fleet Market. Butler, of Cheapside, recommended powders, by the use of which "the Patent [*sic*] will soon be relieved from that convulsive affection termed Hooping Cough." Among the few local advertisements may be noted "The Anti-Impetogines, or Solomon's Drops," which were "a substitute for that dangerous metal mercury"; and a Canterbury chemist, Moses by name, "respectfully informs the public that he manufactures improved Soda Water and Super Carbonated Magnesia Water of very superior quality, warranted to be prepared in glass apparatus only." The Rowland's Macassar Oil advertisements, true to the style then prevailing, informed the readers of the paper that Macassar Oil was "Patronised by the monarchs of the three greatest Empires in the universe—Russia, China, and Persia." The mention of Persia in this connection seems at this distance of time curious, but possibly it was a case of an advertiser's poetic licence.

In a number of "The Idler" published about the time that the earliest of these papers was issued, we read that "the trade of advertising is now so near to perfection that it is not easy to propose any improvement." What our Georgian forerunners would have said about the advertisements of the twentieth century must be left to conjecture.

B.P. Notes

By "Abel Scholar."

Solvent Action of Carbon Bisulphide

A useful method of counteracting the sluggish solvent action of carbon bisulphide on fats in oils in such drugs as crushed seeds owing to the presence of water is to add a few c.c. of strong alcohol, preferably absolute alcohol, to the drug before packing it in the Soxhlet or other apparatus adopted for the extraction.

An Assay Query

The use of diluted sulphuric acid in the assay of tincture of nux vomica recalls a plan which is worth recording, although it did not prove successful. It is well known that strychnine withstands the action of concentrated pure sulphuric acid at the temperature of the water-bath, and when this method was tried as a means of assay the results were always low. Can it be that chlorides or nitrates or both adversely affect the results? One gram of extract was treated with 5 c.c. of sulphuric acid on the water-bath for several hours, and then the ordinary assay process followed after diluting, clarifying by filtration.

A Modified Reagent

The ammonio-sulphate of magnesium reagent for phosphates is not an ideal solution. It has a habit of depositing, and may attack the glass, especially if it is the soft lead variety. A note in "Sec. xxiii., Journal of the Society of Chemical Industry," suggests that if ammonia is omitted until it is required (after the addition of the phosphate solution) it "may be kept indefinitely in glass bottles without the glass being attacked." Several years ago I sent the same note to the *C. & D.*, and a similar solution is now on my laboratory reagent shelf, and has been for about eight years.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(From "The Trade-marks Journal," August 3, 1921.)

"DERBAC"; for soaps (2), (3), (47), and (48). By Sapon Soaps, Ltd., 24-25 King William Street, London, E.C. 4. 413,678; 412,711; 413,679/680. (Associated.)

"DESTROMITE"; for a horticultural insecticide (2). By Robinson Brothers, Ltd., Phœnix Street, Rydcrs Green, West Bromwich. 414,769.

"MOLTONE"; for chemicals (2). By B. C. Tipper & Son, 43 and 45 Homer Street, Balsall Heath, Birmingham. 414,866.

"EWJANAL"; for disinfectants and disinfectant soaps (2). By Wrigleys, 23 Goodwood Road, New Cross, S.E. 14. 416,160.

"AMAGOL"; for a preparation for removing tartar from the teeth (3). By Gould & Co., 62 Mount Pleasant, Liverpool. 413,179.

"AIDU"; for medicinal chemicals (3), goods (47), and perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes, Lancashire. 414,462/463/464. (Associated.)

"EUSALITZ"; for aperient and health salts (3). By G. Walker & Sons, Ltd., 255 Reid Street, Bridgeton, Glasgow. 415,048. (Associated.)

"PHENANINE"; for a medicine (3). By M. Marcuse, 6 Highbury Grove, Highbury, N. 5. 415,358.

"JIFFY"; for lemonade-powders (42). By Messina Products Co., 36 and 37 Cock Lane, Snow Hill, London, E.C. 1. 415,718.

"DETOXOL"; for food substances (42) and for perfumery, etc. (48). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 1. 415,946/947. (Associated.)

"NECTARADE"; for mineral-waters (44). "ROSALYL" on circular device; for perfumery, etc. (48). By Taylors' Drug Co., Ltd., Burley Hill, Leeds. 411,897; 415,881. (Associated.)

"LA SEMAINE PARFUMÉE D'IZIA, PARIS"; for all goods (48). By A. A. Lamotte, 376 Rue Saint-Honore, Paris. 414,846. (Associated.)

"SUMMAREEN"; for perfumery, etc. (48). By W. d'Ambrumenil and E. H. Wild, 202B Uxbridge Road, Shepherd's Bush, W. 12. 415,705.

(From "The Trade-marks Journal," August 10, 1921.)

"K R A" with device formed of three prisms ("K R A" disclaimed); for chemicals (1) and for medicinal chemicals (3). By Köln-Rottweil Aktiengesellschaft, 8 Hindersinstrasse, Berlin, N.W. 40. 414,736/737. (Associated.)

"SOLTAB"; for chemicals (1). By C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London, E.C. 2. 416,045.

"HÆMO-OXYGEN" with device of fish; for chemicals for keeping fish alive (2). By C. Becker, Hallerstrasse 12, Hanover, Germany. 412,251.

"FIBREX"; for all goods (2). By J. N. Harvey, Bengeworth Nurseries, Lower Leys, Evesham. 415,983.

"EUSALAX" and "EUSALINE," for medicinal chemicals (3); "HEDERY BRAND HEADACHE POWDERS," for headache powders (3); "SALITZ BRAND HEALTH SALTS," for aperient and health salts (3). By G. Walker & Sons, Ltd., 255 Reid Street, Bridgeton, Glasgow. 407,315/316 (Associated); 415,046, 415,047 (Associated.)

"SANOVAL"; for soap (3). By T. H. Harris & Sons, Ltd., 22 Marsh Gate Lane, Stratford, London, E. 15. 415,002. (Associated.)

"HYCOL"; for medicinal chemicals (3). By Pearson's Antiseptic Co., Ltd., 61 Mark Lane, London, E.C. 3. 414,679. (Associated.)

"RHODARSAN"; for medicinal chemicals (3). By Société Chimique des Usines du Rhône, 21 Rue Jean Goujon, Paris (8e). 415,017. (Associated.)

"ASTOLENE"; for all goods (3). By Howards & Sons, Ltd., Uphall Road, Ilford. 415,331.

"ANNULOID"; for medicinal chemicals (3). By Allen & Hanburys, Ltd., Plough Court, Lombard Street, London, E.C. 415,017. (Associated.)

"EX-LAX"; for medicinal tablets (3). By Ex-Lax Manufacturing Co., 433-443 Atlantic Avenue, Brooklyn, U.S.A. 415,433.

"THIAMON AMMONIUM ICHTHOSULFONICUM"; for a medicine (3). By Suchywerke Aktiengesellschaft, 1 Lilienthalgasse, Vienna, I. 415,907.

"NECTAROMA"; for food substances (42). By Boot's Pure Drug Co., Ltd. 37 Station Street, Nottingham. 415,476.

"ANTOXOTOL," "ANTOXOL," and "ANTOX OTOL"; for food substances (42) and for perfumery, etc. (48). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 1. 415,489/490/943/944/949/950. (Associated.)

"SARSAX"; for beverages and flavourings (42). By Potter & Clarke, Ltd., 60 Artillery Lane, London, E. 1. 416,009.

"CITROLADE"; for food substances (42). By W. B. Cartwright, Ltd., Larkfield, Rawdon, near Leeds. 416,062.

"ESITOL"; for all goods (47 and 48). By F. C. Wood, 67 Southwark Street, London, S.E. 1. 413,472. (Associated.)

"RILMÉ," with device of Eastern girl carrying tray; for perfumery, etc. (48). By W. H. & Jane Moore, 41 Green Lanes, South Harrow, Middlesex. 416,034.

"BABETTE"; for perfumery, etc. (48). By Babette, Ltd., 54 New Broad Street, London, E.C. 2. 416,404.

(From "The Trade-marks Journal," August 17, 1921.)

"GLOOD"; for chemicals (1). By Kirkwood, Craig & Co., Ltd., 8th Avenue Works, Manor Park, London, E. 12. 416,594.

"BETA-LYSOL"; for a sheep-dip and disinfectant (2). By Lysol, Ltd., 9 and 10 St. Mary-at-Hill, London, E.C. 3. 415,189.

"BUZZ-OFF"; for chemicals (2) and for medicinal chemicals (3). By Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, S.W. 7. 415,454/316. (Associated.)

"BRITOLIC"; for soaps (2). By the British Soap Co., Ltd., Foster Street, Wilmington, Hull. 416,384. (Associated.)

"COLEMAN'S MEAT AND MALT WINE WITH QUININE" on label device; for a medicine (3). By Coleman & Co., Ltd., Wincarnis Works, Westwick Street, Norwich. 413,241. (Associated.)

"SQUILLURETIN," "SCILLAREN," and "SQUILLAREN"; for pharmaceutical preparations (3). By Sandoz Chemical Works, 60 Fabrikstrasse, Basle, Switzerland. 414,930/934/935. (Associated.)

"KALEANER"; for plaster (3). By Callender's Cable and Construction Co., Ltd., Hamilton House, Victoria Embankment, London, E.C. 4. 415,431. (Associated.)

"NAZALGENE"; for medicinal chemicals (3). By Arthur H. Cox & Sons, Ltd., 93 Lewes Road, Brighton. 416,547.

"BUMPER"; for medicinal chemicals (3) and for perfumery, etc. (48). By J. Watson & Sons, Ltd., Whitehall Road, Leeds. 416,433/434. (Associated.)

"OMNI"; for curative vaporising apparatus (11). By M. & P. Enterprises, Ltd., 62 Bryanston Street, Marble Arch, London, W. 1. 415,396.

"VITAMINOL"; for concentrated foods (42). By E. T. Pearson & Co., Ltd., London Road, Mitcham, Surrey. 412,533. (Associated.)

"MISSOURI MOON" on device; for perfumery, etc. (48). By G. S. Galloway, 98 Colmore Row, Birmingham. 415,122.

"CUTEMA"; for perfumery, etc. (48). By W. Smith, 47B Church Street, Rugby. 415,924.

"VARSITY"; for perfumery, etc. (48). By L. Benson, 54A Lloyd Street South, Manchester. 416,278.

"HYGENIA"; for toilet preparations (48). By M. R. Webb, West Lodge, St. John's Road, Sevenoaks, Kent. 416,347.

"CHATEAU"; for perfumery, etc. (48). By Babette, Ltd., 54 New Broad Street, London, E.C. 2. 416,403.

"GLAZITE"; for a waterproofing compound (50). By G. P. Silver, 6 Warwick Dene, Ealing, London, W. 5. 415,284.

(From "The Trade-marks Journal," August 24, 1921.)

"SORBOID"; for chemicals (1). By W. Adler, Haupstrasse, Karlsbad, Czecho-Slovakia. 411,260. (Associated.)

"SIROX"; for chemicals (1). By Davidson & Co., Ltd., Sirocco Engineering Works, Bridge End, Belfast. 415,015. (Associated.)

"SUNKIST"; for dyes (1). By Lever Brothers, Ltd., Port Sunlight, Cheshire. 415,049. (Associated.)

"EXILAC"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, London, E. 9. 415,282.

"TALENS"; for chemicals (1). By Naamlooze Vennootschap Fabriek Van Fyne Verven en Inkten, Sophialaan 22, Apeldoorn, Holland. 415,453.

"AIDU"; for disinfectant soap (2). By W. Gossage & Sons, Ltd., Widnes, Lancs. 414,461. (Associated.)

"ANTI-HYDRO"; for sheep-dips and disinfectants (2). By E. Wade-Wilton & Son, Hill Top, Bramley, near Leeds. B 415,623.

"THE GRAND NATIONAL EMBROCATION" with steeplechase device; for an embrocation for horses and cattle (2). By Wilkinson & Simpson, Ltd., 24 Newgate Street, Newcastle-on-Tyne. 415,823.

"PINEUX"; for disinfectants (2). By Wrigleys, 23 Goodwood Road, New Cross, London, S.E. 19. 416,159.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, September 1.

WITH the holiday period now drawing to a close a revival in trade is looked for, and the drug-auctions to be held next week should afford a clue as to what evidence there is for this anticipation. Meanwhile the political crisis in Germany, with threatened labour troubles and strikes, is a depressing factor for the moment, with the possibility of a further substantial decline in the value of the mark after the next reparation payment. There are no important changes in crude drugs: senega remains firm. Cape aloes are decidedly cheaper. Ipecacuanha is dull and easy. Refined camphor has eased somewhat, and menthol is steady. Honey has been slowly creeping up of late, and stocks have gradually diminished. Asafetida and tragacanth are on a lower basis. Sound coriander seed is higher, and canary seed is easier. Dill is scarce and hemp firm. Cod-liver oil has a firmer tendency on higher Norwegian kroner values. Zanzibar cloves are dearer. Balsams are steady, with Peru tending higher at the source. Belgian chamomiles are dearer, owing to short crop.

Higher	Firmer	Easier	Lower
Bergamot oil Chamomiles Cloves (Zan.) Coriander seed (sound) Lemon oil Linseed (Mor.) Orange oil Salicylic acid	Balsam Peru (in U.S.) Cod-liver oil Hemp seed Hexamine Lithia carbonate Sodium bicarb. Sodium sulphide **Steadier** Guaiacol carb. Methyl salicyl. Thymol	Acetic acid Camphor (Jp. and Ch. ref.) Canary seed Cassia oil Cedarwood oil Egg products Glucose Lead acetate Lemongrass oil Oxalic acid Patchouli oil Pepper (black, spot) Petitgrain oil Sassafras oil	Aloes (Cape) Arsenic Eucalyptol Mint oil Musks (artificial) Pyrogallic acid Turpentine

Cablegram

NEW YORK, August 31.—Business is quiet. Morphine salts are lower, with sulphate offering at $4.90 per oz.; codeine preparations are also lower, sulphate offering at $4.90 per oz. Mercury has been reduced to $42.50 per flask. Taraxacum is easier at 9c. per lb. Balsam Canada is also easier at $12.00 and Oregon fir at $1.45 per American gallon.

Crude Drugs, etc.

ALBUMEN.—Prime Chinese hen is unchanged at 3*s.* per lb. on the spot, and for September-October shipment 2*s.* 11*d.* per lb. c.i.f. is quoted.

ALOES.—Sales of Cape have been made at lower prices. Fine hard bright are now quoted at 42*s.* 6*d.* to 45*s.* per cwt. down to 35*s.* for dull.

The exports from the Union of South Africa during May amounted to 14,587 lb. (119*l.*), against 57,679 lb. (1,333*l.*) in May 1920. During the five months the exports were 44,081 lb. (469*l.*), against 240,621 lb. (4,519*l.*) in 1920.

ANTIMONY.—In the absence of actual business, Chinese crude is nominal with sellers at all sorts of prices on either side of 17*l.* per ton c.i.f. to arrive. Foreign regulus is dull, much the same rates now being quoted for warehouse lots or parcels to arrive at about 24*l.* 10*s.* to 25*l.* English refined remains as before at artificially high figures, with a few retail lots placed occasionally.

BALSAMS.—*Copaiba* is quiet and unchanged at 1*s.* 10*d.* per lb. for B.P. on the spot. Latest reports from the U.S.A. make the market for *Peru* firmer, and spot holders are not willing to quote less than 7*s.* 9*d.* per lb., following business done at 7*s.* 6*d.* *Tolu* is fairly steady, with spot sales at 1*s.* 7½*d.* per lb. *Canada* is unchanged at 8*s.* 3*d.* per lb.

CAMPHOR (CRUDE).—Chinese on the spot is quoted at from 2*s.* 9*d.* to 2*s.* 10*d.* per lb. and at 2*s.* 9*d.* c.i.f. to arrive.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are quiet, with spot sellers at 4*s.* to 4*s.* 1*d.* per lb. and September-October shipment at 3*s.* 11*d.* c.i.f. Chinese discs are quoted at 3*s.* 11*d.* and September-October shipment at 3*s.* 9*d.* c.i.f.

CASCARA SAGRADA.—New bark to arrive is quoted at from 62*s.* 6*d.* to 64*s.* per cwt. c.i.f., and on the spot two- to three-year old can be had at about 82*s.*

CHAMOMILES.—Reports state that the Belgian crop will be much smaller this year, the yield being about one-quarter the normal.

COD-LIVER OIL.—Owing to the appreciation in the value of the Norwegian kroner there is a firmer tendency, but actual business is limited at from 85*s.* to 90*s.* per barrel c.i.f. London for finest Norwegian medicinal oil, but bids of, say, 5*s.* less would probably lead to business. Our Bergen correspondent writes on August 29 that of late slightly more demand is reported, and the tendency is somewhat firm. In addition, the exchange for sterling is falling. Cod-liver oil is now quoted at 90*s.* to 95*s.* per barrel c.i.f. London for prompt shipment.

EGG PRODUCTS are quiet and slightly easier, prime Chinese hen liquid yolk offering at 122*s.* 6*d.* per cwt. on the spot, and for September-October shipment 95*s.* c.i.f. is quoted. Dried whole native on the spot is 4½*d.* and sprayed 8*d.* Dried yolk is 4*d.* spot.

FARINA.—Japanese No. 1 for September-October shipment is offered at 28*s.* 6*d.* per cwt. c.i.f. Dutch is quoted at 27*s.* 6*d.* spot.

GLUCOSE is easier, guaranteed water-white for August-October delivery offering at 29*s.* 6*d.* per cwt., duty paid, landed terms.

HYDRASTIS can be had on the spot at 25*s.* per lb. in limited quantity, and to arrive from about 21*s.* to 22*s.* c.i.f. is quoted.

IPECACUANHA.—Fair-sized quantities of Matto Grosso have arrived of late: market during the drug-auction interval has been easy, with good testing Matto Grosso offering at 7*s.* 6*d.* per lb.

MAGNESIUM is easy, with sellers of home metal at 4*s.* 6*d.* per lb., while Continental parcels are on offer at 3*s.* 6*d.* to 3*s.* 9*d.* per lb. Magnesium powder is obtainable at well below 3*s.* per lb., with virtually no demand.

MENTHOL.—Late last week spot sales of Kobayashi-Suzuki were made at 22*s.* per lb., but the value this week may be taken as 22*s.* 6*d.* and single cases 23*s.* Sellers of September-October shipment quote 19*s.* 3*d.* to 19*s.* 6*d.* c.i.f.

MERCURY.—There is no sign of improvement in business, and this may eventually induce another cut by the chief importers, whose limit, however, still stands at 10*l.* 10*s.* per bottle, although a few sellers are to be found at 10*l.* 7*s.* 6*d.*, and even asking for bids for Italian parcels held on the spot. Very few export inquiries are about.

SENEGA is firmly held at 4*s.* per lb. on the spot, and to arrive 3*s.* 10½*d.* to 3*s.* 11*d.* c.i.f. is quoted.

SHELLAC is steady, with usual standard quality TN Orange offering at 290*s.* per cwt. Fine lemon is 400*s.* to 410*s.*, fine second orange 370*s.* to 380*s.*, RL1 340*s.*, AC cakey 285*s.*, and IG 220*s.*, all spot. Futures have been irregular, the sales including TN Orange for August delivery at 275*s.* to 283*s.* 6*d.*, October at 280*s.* to 300*s.* to 295*s.*, and December 270*s.* to 285*s.* Arrival market is nominal at 280*s.* c.i.f. for August-September or September-October shipment.

The Government of India has approved a proposal made by various interests connected with the shellac trade that a small cess be imposed on lac exports in order to finance research work in connection with the lac industry. A Bill authorising the cess will be introduced in the ensuing session of the Legislature.

TURPENTINE.—Forward delivery seems harder, sellers being less disposed to commit themselves, while somewhat more demand has come forward from consumers.

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The London warehouse stocks, which recently increased to well over 16,000 barrels, have again decreased. Should the demand in America improve, this will soon be reflected on this side. In making a comparison with pre-war rates, the present rate of the American exchange has to be allowed for. Spot closes at 62*s*. and September to December at 62*s*. 6*d*. per cwt.

VANILLA.—Fine Bourbon beans from importers' hands are offered on the spot at from 10*s*. to 16*s*. per lb., according to length.

Seeds and Spices

ANISE is unchanged at 75*s*. per cwt. spot for Russian, and Spanish is 76*s*. 6*d*. to 78*s*. as to quality.

CANARY SEED is quiet and easier. *Morocco* : Larache is quoted at 95*s*. to 107*s*. 6*d*. per quarter. Mazagan is 120*s*. Good-quality Casablanca and Saffi, 120*s*. *Plate*, 90*s*. to 95*s*.

CARAWAY SEED.—Dutch on the spot is 31*s*. to 32*s*. 6*d*. per cwt., and Moroccan is 25*s*.

CASSIA LIGNEA is steady, with spot sellers of whole selected at 35*s*. per cwt. and broken at 27*s*. 6*d*.

CLOVES are firmer on the spot, with sales of fair Zanzibar at from 1*s*. 2½*d*. to 1*s*. 3*d*. per lb., and for September-October shipment 1*s*. 1*d*. per lb. c.i.f. has been paid, with 1*s*. 2*d*. quoted.

CORIANDER SEED is firm, and sound seed is scarce and dearer. Sound is 28*s*. 6*d*. per cwt.; wormy, 18*s*. to 23*s*. 6*d*. as to quality.

CUMIN SEED is firm at 65*s*. per cwt. on the spot. Nothing offering to arrive.

DILL SEED is 25*s*. per cwt. for screened on the spot.

FENNEL SEED is unobtainable on the spot.

FENUGREEK SEED is still 14*s*. to 12*s*. 6*d*. per cwt. spot, and 12*s*. 7½*d*. c.i.f. for Moroccan.

HEMP SEED is firm at 25*s*. 6*d*. to 26*s*. per cwt. spot.

LINSEED.—Moroccan is scarce and dearer at 27*s*. 6*d*. per cwt. on the spot.

MUSTARD SEED.—Good yellow English is 38*s*. Inferior descriptions are 25*s*. per cwt. upwards as to quality.

PEPPER is easier, fair black Singapore offering at 4¼*d*. per lb. on the spot. Sales of August-October shipment have been made at 4⅞*d*. c.i.f. and October-December shipment at 4¼*d*. c.i.f. Lampong and Tellicherry are 5¼*d*. and Aleppy 4¾*d*. spot. *White* pepper is quiet but firm at 9½*d*. for Muntok, and for September-November shipment sales have been made at 8⅞*d*. to 8¾*d*. c.i.f. Singapore is 9¼*d*. spot and 8⅝*d*. c.i.f. for August-September shipment.

PIMENTO is quiet on the spot, with sellers at 2⅝*d*. per lb.

Essential Oils

BUSINESS continues fairly active, chief interest being centred in Sicilian oils, the higher prices for which are well maintained at the source. Spot values do not appear to have increased in the same proportion, probably because many consumers filled their requirements at the low prices current some week ago. Spot stocks of bergamot and orange oils are for the present difficult to find, and lemon oil is plentiful but dearer. Other price changes are in buyers' favour, including cassia, cedarwood, lemongrass, patchouli, Paraguayan petitgrain, sassafras, and Japanese mint oils. Synthetic chemicals are fairly steady, holders anticipating that values for many of these articles will increase in the near future.

ANISE.—"Red Ship" on the spot is steady at 2*s*. 3½*d*. to 2*s*. 4*d*. per lb.; buyers at 2*s*. 3*d*. To come forward is easier at 2*s*. 2*d*. August-September shipment, c.i.f.

BAY.—West Indian distilled is unchanged on the spot at 14*s*. 6*d*. to 15*s*. 6*d*. per lb.

BERGAMOT appears to be scarce on spot, small lots changing hands at 28*s*. per lb., but in some directions holders can still offer at 26*s*. 6*d*. Forward quotations are unchanged at around 28*s*. c.i.f.

CAMPHOR.—Japanese white, essential, is nominal at 125*s*. per cwt., there being practically none offering. To come forward 115*s*. c.i.f. ex Holland is quoted.

CARAWAY.—Dutch is quoted on the spot at from 6*s*. to 6*s*. 3*d*. per lb. for rectified, and crude is 6*d*. per lb. less.

CASSIA is cheaper at 4*s*. 7½*d*. per lb. for 80 to 85 per cent. c.a.

CEDARWOOD is cheaper on the spot at 2*s*. 9*d*. per lb. in drums and 2*s*. 10*d*. in smaller packages.

CINNAMON.—Ceylon leaf is steadier at from 4¾*d*. to 5*d*. per oz. spot. In one direction 7*s*. 6*d*. per lb. is quoted, in quantity, for high-testing oil.

CITRONELLA is firm. Ceylon is 1*s*. 6*d*. per lb. on the spot, and for shipment up to 1*s*. 5½*d*. c.i.f. is quoted. Java is not in much demand at from 2*s*. 9*d*. to 2*s*. 10*d*.

EUCALYPTUS.—B.P. oils are beginning to attract attention, and 70 to 75 per cent. and upwards cineol content are offered on the spot at from 1*s*. 9*d*. to 2*s*. per lb. *Amygdalina* is easier at 1*s*. 6*d*., and *Citriodora* is also lower at 12*s*. 6*d*. Improved demand will probably see higher prices as these are less than replacement values.

GERANIUM.—Only small lots of Bourbon are being offered on the spot at from 15*s*. 6*d*. to 16*s*. per lb.

GINGERGRASS.—For "insoluble" in pots the price is unchanged at from 11*s*. to 12*s*. per lb. There is very little inquiry.

LEMON is dearer on the spot at from 3*s*. 9*d*. to 4*s*. 4*d*. per lb. To come forward prices are higher, 4*s*. 6*d*. c.i.f. being now fairly general, but more is wanted in some directions.

PALERMO, August 25.—Local speculators made a special effort last week to push up prices, and considerably higher figures were paid, as it was hoped to start a general movement and to induce exporters, whom they think have still blank requirements to cover, to buy and push the market up still further. They did not succeed, however, and the position is slightly easier.

LEMONGRASS.—Cochin on the spot is easier at about 3½*d*. per oz.

LINALOE.—Mexican wood oil is steady at about 15*s*. per lb.

MINT.—Japanese dementholised, Kobayashi-Suzuki, is easier on the spot at 4*s*. 7½*d*. per lb.

NEROLI.—Finest French petale is offered at 90*s*. per oz. spot in one direction.

ORANGE.—Sicilian on the spot is reported scarce, and holders make the value from 17*s*. to 18*s*. per lb. on the spot for sweet. There are fair spot supplies of West Indian offering however, about 14*s*. per lb. being quoted. To come forward Sicilian sweet is quoted 17*s*. to 19*s*. c.i.f., and West Indian at 14*s*. c.i.f.

OTTO OF ROSE.—Finest Bulgarian is offered at from 42*s*. to 50*s*. per oz., according to brand, and Anatolian is obtainable at about 32*s*. 6*d*.

PATCHOULI.—On the spot quotations are easier at from 42*s*. 6*d*. to 45*s*. per lb.

PEPPERMINT.—Wayne County is not plentiful at 12*s*. 6*d*. to 13*s*. per lb. spot. Redistilled is offered at 14*s*. To come forward, prices are more stable since persistent shading tactics have apparently ceased, and there are now open sellers at about 11*s*. 3*d*. c.i.f. on present exchange values.

PETITGRAIN.—Paraguayan is still uncalled for and easier at from 11*s*. to 12*s*. per lb.

SASSAFRAS is slightly easier on the spot at 8*s*. per lb.

WORMSEED.—Reports from the growing centres seem to show that the next crop will be scarce and dear, and in one direction a price has been fixed at about double the present market quotations. So far the reports appear to have had little effect on New York markets. Spot is weak, with not much demand, at from 14*s*. 9*d*. to 15*s*. per lb.

Aromatic and Synthetic Chemicals

AMYL SALICYLATE is quiet at about 4*s*. per lb. for spot. BENZYL ACETATE is unchanged at from 3*s*. 6*d*. to 4*s*. per lb. BENZYL BENZOATE is obtainable at from 3*s*. 3*d*. to 3*s*. 9*d*. per lb., which is slightly easier. HELIOTROPINE is obtainable in quantity at 8*s*. 6*d*. per lb., up to 10*s*. being quoted in some directions. METHYL ANTHRANILATE is dull, and value is nominal at from 8*s*. 6*d*. to 9*s*. per lb. METHYL SALICYLATE is firmer at from 2*s*. 2*d*. to 2*s*. 3*d*. per lb. MUSKS.—Finest qualities are being offered on the spot at the following prices: XYLOL, 13*s*. per lb.; AMBRETTE at 100*s*.; and KETONE at 50*s*. SAFROL on the spot is irregularly quoted at from 2*s*. 3*d*. to 2*s*. 9*d*. per lb. according to holder and packing. An important Continental supplier, it is stated, has suddenly withdrawn cheap quota-

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tions, and is not prepared to accept business at less than 3*s.* 6*d.* delivered. TERPINEOL on the spot is unchanged at 1*s.* 9*d.* to 1*s.* 10*d.* per lb. for French or Dutch. Some makers are quoting 2*s.* 6*d.* delivered. VANILLIN is firm at from 33*s.* 6*d.* to 35*s.* per lb.

Fixed Oils, etc.

FAIR business continues to be done in this market, and values are well maintained. Tallows are steady to firmer. ACID OILS.—Coconut, 47*s.*; palm kernel, 47*s.*; groundnut, 34*s.* to 37*s.*; scarce, but high rates are left alone. BONE GREASE.—Pale water, nominal, and nothing to be had. Brown, 32*s.* 6*d.* Benzine, 31*s.* Scarce. Buyers would pay more for further supplies. CASTOR OIL.—Pharmaceutical, 60*s.*; first pressings, 55*s.*; second pressings, 45*s.* Market neglected. COTTON-SEED OIL.—Deodorised, 55*s.*; common edible, 50*s.*; soapmaking, 49*s.*; crude, 40*s.* to 42*s.* Market generally quiet. COCONUT OIL.—Deodorised, 69*s.*; Ceylon, 56*s.*; Cochin, 70*s.* Quiet. FISH OILS.—Japanese in cases, 23*s.*; Coast cod, 25*s.* Very quiet. GROUNDNUT OIL.—Deodorised, 64*s.*; crude, 52*s.* A quiet market. PALM-KERNEL OIL.—Deodorised, 63*s.*; crude, 52*s.* Fairly steady but quiet. PALM OIL.—Lagos, 40*l.* 10*s.* to 41*l.* per ton; softs, 38*l.* to 38*l.* 10*s.*; hards, 33*s.* to 33*l.* 5*s.* A brisker market and fairly steady. RAPE OIL.—Refined, 63*s.* to 64*s.*; crude, 56*s.* A quiet market. LINSEED OIL.—The position continues interesting. It is remarkable that, in view of the enormous quantities of River Plate seed coming along, the market has again shown so much resistance. Strong speculative support has again been forthcoming both for the oil and raw material (after the recent resales), which may possibly be attributed to American trade possibilities. The renewed firmness has also affected forward positions. London naked closes at 38*s.* and Hull at 36*s.* 9*d.* per cwt. SOAP STOCK.—Groundnut is nominal; none offering. SOYA-BEAN OIL.—Deodorised, 55*s.*; crude Oriental, 40*s.* Quiet market. TALLOW.—Fine mutton, 49*s.* to 49*s.* 6*d.*; fine beef, 51*s.* 9*d.*; good mixed, 47*s.* 9*d.* to 48*s.*; inferior, 41*s.*; town tallow, 40*s.* 6*d.*; melted stuff, 32*s.* Market is fairly active, and values are firm.

Pharmaceutical Chemicals

So far the Safeguarding of Industries Act has had little effect on the market, and buyers are showing no inclination to place orders at ruling figures. There is apparently no rush on the part of importers to bring in stocks before the Act comes into force on October 1. Holders of stocks have certainly steadied up their quotations, and are less disposed to accept some of the low prices current. They prefer to wait developments, particularly as values of chemicals have been rising in Germany during the past few months, almost in exact proportion to the depreciation of the mark. Salicylates, lithium carbonate, and phenacetin are somewhat firmer.

ACETANILIDE.—Market is still inert at from 1*s.* 3*d.* to 1*s.* 4*d.* per lb. for crystals or powder.

ASPIRIN is generally expected to appreciate in value when the 33⅓ per cent. duty is in operation. Meanwhile, for tip-top brands 3*s.* per lb. in cwt. lots has been freely paid; less-esteemed makes can be had at from 2*s.* 9*d.* to 2*s.* 11*d.*

ATROPINE SULPHATE is quoted steadily at 21*s.* per oz.

BARBITONE continues irregular from 12*s.* to 14*s.* per lb.

BENZOIC ACID is about 2*s.* per lb., and nothing much now offering below that figure.

BETANAPHTHOL remains stagnant with stocks offering cheaply at 3*s.* per lb. nominally.

BROMIDES continue dull, with prices substantially unchanged. Current values are: Potassium 8d., ammonium 11*d.*, and sodium 9½*d.* per lb.

CAFFEINE is maintained steady at 18*s.* 6*d.* per lb.

CHLORAL HYDRATE is unchanged at 4*s.* 9*d.* per lb. duty paid; there has been a little demand.

CITRIC ACID has not been in such good demand; current offers are from 2*s.* 4½*d.* to 2*s.* 5*d.* per lb., less 5 per cent.

COCAINE.—Hydrochloride has been in slightly more demand at about 10*s.* 6*d.* per oz., buyers anticipating their requirements in view of the Dangerous Drugs Act, which came into operation on September 1. It is reported that, owing to the new Regulations, the Home Office has issued a notice calling in the original permits granted to dealers, with a view either to renewal or cancellation.

CREAM OF TARTAR finds a few buyers at about 127*s.* 6*d.* per cwt., less 2½ per cent. for foreign.

CREOSOTE B.P. is unchanged on a dull market at 4*s.* 6*d.* to 4*s.* 9*d.* per lb.

CREOSOTE CARBONATE is now steady at 14*s.* per lb., but sales are few.

EUCALYPTOL can now be had at 4*s.* per lb., which is cheaper than our previous quotation.

GUAIACOL CARBONATE is slightly firmer at 14*s.* per lb. for small lots and less for quantity.

HEXAMINE has a much better tone, nothing offering now below 4*s.* to 4*s.* 3*d.* per lb.; inquiry fair.

HYDROQUINONE continues fairly steady at 4*s.* 6*d.* to 4*s.* 9*d.* per lb.; demand not quite so good.

LITHIUM CARBONATE is firmer, with spot sales at 9*s.* 6*d.* per lb.

METHYL SALICYLATE shows a further slight advance to 2*s.* 2*d.* to 2*s.* 3*d.* per lb., and the market is quite firm.

METHYL SULPHONAL, B.P., quoted at 19*s.* per lb., U.S.P. at about 17*s.* 6*d.*; slow movement.

MILK SUGAR.—American make is quoted at from 120*s.* to 125*s.* per cwt. as to quantity, and Dutch at from 130*s.* to 135*s.*

PARAFORMALDEHYDE is quoted in some cases down to 3*s.* per lb., others want 3*s.* 3*d.*; market quiet.

PARALDEHYDE.—Isolated lots offered at 1*s.* 10*d.*; general quotations are at 2*s.* per lb. on a quiet market.

PHENACETIN.—Spot sales have been made up to 6*s.* per lb., which may be regarded as an average price. Some sellers prefer to hold off.

PHENAZONE remains steady at 7*s.* 6*d.* per lb., with very few buyers.

POTASSIUM PERMANGANATE, B.P., remains at 1*s.* upwards per lb., with limited orders being placed.

POTASSIUM SULPHOGUAIACOLATE is about 9*s.* per lb.; a dull market.

PYROGALLIC ACID.—Crystals are 6*s.* 9*d.* and resublimed 8*s.* Resublimed is cheaper forward.

QUININE.—Sulphate is selling in the dealers' market at 3*s.* 10½*d.* to 4*s.* per oz. net. Makers' price is 4*s.* 1*d.* net.

RESORCIN is 7*s.* 6*d.* to 8*s.* per lb.; quotations vary and demand is on limited lines only.

SALICYLATES.—The firmer tone noted last week is well maintained, and more demand is reported. For B.P. salicylic acid from 1*s.* 4*d.* to 1*s.* 6*d.* per lb. is quoted, but sellers are not keen at the lower price. Sodium salicylate powder is selling at from 2*s.* 2*d.* to 2*s.* 3*d.* per lb. and is firm.

SALOL can be had at 2*s.* 6*d.* per lb. on the spot.

SANTONIN.—It is reported that on August 12 the s.s. "Baltriger," from Reval, etc., arrived in London with a consignment of "raw powdered chemicals," which are said to consist of 110 cases santonin, each containing 50 kilos. In consequence of this arrival it is anticipated that the price will shortly be reduced to about 40*l.* per kilo. So far, we note, this arrival has not been published in the London Customs Bill of Entry (Bill B), where we note the arrival of 6,300*l.* worth *via* Switzerland and 250*l.* worth *via* Esthonia.

SILVER NITRATE.—The price for crystals on August 31 was based on a metal price of 37⅝*d.* In quantities of 25 oz., 2*s.* 4¾*d.*; 50 oz., 2*s.* 4¼*d.*; 100 oz., 2*s.* 3¾*d.*; 250 oz., 2*s.* 3¼*d.*; 500 oz., 2*s.* 2¾*d.*

SODIUM BENZOATE is quiet at 2*s.* per lb.

SODIUM DIETHYLBARBITURATE, B.P., is unchanged at 22*s.* per lb.

TERPIN HYDRATE is weak and dull at 3*s.* 6*d.* per lb.

THYMOL.—German makers having paid higher prices for ajowan seed are inclined to ask more money. 22*s.* to 22*s.* 6*d.* per lb. will buy good white crystals.

VANILLIN continues firm at 33*s.* 6*d.* to 35*s.* per lb., with some demand.

Heavy Chemicals

London, August 31.

THE chemical workers' dispute has been settled under a "half-way" agreement which is considered satisfactory. Makers, however, are not expected to make any important alterations in consequence of the reduction in workers'

wages, as it is generally understood recent outputs have been at a loss. The market still suffers from a generally sluggish tone, and buyers continue to dominate the market, which is characterised by many wide variations in quotations. Acetic acid, arsenic, and oxalic acid are cheaper.

ACETIC ACID has been quite neglected during the week, and values are quoted at slightly lower figures at the close. Eighty per cent. technical, 37*l.* to 38*l.* per ton. Glacial 98 per cent. is about 50*l.* in barrels.

ALUM.—Lump in barrels is offered from the Continent at 12*l.* 10*s.* per ton, against British in the region of 17*l.* There is, however, very little demand at present.

ARSENIC.—The market has broken badly, thus confirming the views we expressed some time ago. Demand is poor, and the liquidation of old stocks, which weighed on the market for months past, has been rather forced at prices ranging down to about 37*l.* 10*s.* to 40*l.* per ton delivered London or Liverpool. Terms vary, of course, upward of that figure according to quantity, with 43*l.* quoted for small lots of best white Cornish powdered.

BARIUM CHLORIDE (98 to 100 per cent.).—Imported material at 13*l.* 10*s.* per ton has put British at about 17*l.* off the market. There is practically no demand. Some spot lots offered very cheaply.

BARYTES is fairly steady, with some little demand at 5*l.* 5*s.* per ton for grey up to 7*l.* 10*s.* for best white material.

BLANC FIXE continues unchanged and firm at 22*l.* 10*s.* per ton c.i.f. London, with a fair demand.

BORAX.—Makers and holders of parcels on the spot are quoting about same figures; the demand is still unsatisfactory. Commercial, crystals, 30*l.*; powdered, 31*l.* B.P. crystals, 35*l.*; powdered, 37*l.* per ton.

BORAX GLASS is unchanged at the makers' figures of 87*l.* for lump and 88*l.* for powdered per ton in tin-lined cases.

COPPER SULPHATE.—There has been a fairly active demand for export and the undertone seems steady, due to the further sharp recovery in the price of metal. The fact that there is continuous competition in the export markets is against an improvement in makers' terms. These vary a good deal, being comparatively low in Lancashire. About 30*l.* to 32*l.* would about cover the full range of sellers' pretensions, although a little below 31*l.* f.o.b. Liverpool seems a more general quotation for casks, less the usual discount. The cost of acid is lower, and working costs generally coming down by degrees is helping to restore the industry.

FORMALDEHYDE shows no signs of reviving. Few spot lots available at 92*l.* 10*s.*, but there appear to be no buyers.

GLAUBER'S SALT is now quoted at 5*l.* to 5*l.* 5*s.* per ton in single bags. At this low figure it is difficult to make sales.

LEAD ACETATE has eased off during the week, and is now quoted at 44*l.* for bown broken and 50*l.* per ton for white crystals. Demand is still very small.

LEAD PRODUCTS.—The outlet for the various descriptions of compounds is complained of as being very poor, both on home and foreign account. Obviously in the present strained state of the Continental exchanges, foreign competition plays an important part to the detriment of the British industry. Under present continuous firm conditions in the raw material, manufacturers are adhering to their recent terms.

LITHARGE from the Continent is offered at 33*l.* 10*s.* per ton c.i.f. London. British pure flake is about 36*l.*, less 2½ per cent. Business is not brisk.

LITHOPONE finds a few buyers at cut figures. Quotations continue to vary from 26*l.* to 28*l.* for 30 per cent. Continental red seal; light resisting, from 27*l.* to 30*l.*; and green seal, about 33*l.* per ton.

OXALIC ACID is now offered cheaper at 8*d.* per lb. for crystals, and a little export business has been done.

POTASH CAUSTIC (88 to 92 per cent.) on the spot is offered at 32*l.* per ton, but it is difficult to find buyers. Cheaper prices are quoted for forward delivery from the Continent. Home makers' figures continue at 31*l.*

POTASSIUM BICHROMATE still finds no buyers nominally at 9*d.* per lb. American material is quoted at same level.

POTASSIUM CARBONATE (90 to 92 per cent.) is unchanged on a dull market at 26*l.* per ton.

POTASSIUM PERMANGANATE continues to move in limited quantities at about 1*s.* per lb. for imported material. Home makers are a little dearer.

POTASSIUM PRUSSIATE has been asked for fairly heavily, and makers' prices of 1*s.* 2*d.* for yellow and 2*s.* for red are now firm. Spot parcels are quoted slightly higher.

RED LEAD.—Imported material is quoted at about 33*l.* 10*s.* per ton c.i.f. London, with a few buyers.

SALTCAKE remains stagnant, and values are nominal. Very low quotations from Continent are neglected.

SODA ASH (58 per cent. light alkali) is offered at 8*l.* 5*s.* to 8*l.* 10*s.* per ton for parcels on the spot. The demand remains very poor, makers quoting 8*l.* 10*s.* for home trade and about 10*l.* 5*s.* for export.

SODA CRYSTALS, ex works or station, is steady, with fair demand at 7*l.* per ton in bags.

SODIUM BICARBONATE.—Refined has been in better request, and prices for spot lots have firmed up to 12*l.* per ton in single 2-cwt. bags.

SODIUM CAUSTIC, ex makers' works for home trade only (70 to 72 per cent.), is 24*l.* 10*s.*, and 76 to 77 per cent. at 26*l.* 15*s.* Parcels on the spot offer at (70 to 72 per cent.) 22*l.* 15*s.* f.o.b. and 76 to 77 per cent. 25*l.* ex store. American 76 per cent. also at competitive figures. Demand is not good.

SODIUM CYANIDE (100 per cent. basis) is unchanged at 11*d.* to 11½*d.* per lb. f.o.b. Small demand only.

SODIUM HYPOSULPHITE continues unsteady. Imported pea crystals now quoted at 21*l.* per ton in 1-cwt. kegs, and commercial at 14*l.*, home makers quoting 18*l.* per ton for photographic and 15*l.* for commercial for home trade only.

SODIUM PRUSSIATE is still quoted at last week's reduced figures of 6¾*d.* per lb., with but a small demand.

SODIUM SULPHIDE on the spot is firmer at about 24*l.* per ton for 60 to 62 per cent. solid in drums. Makers' price for 60 to 65 per cent. concentrated is now 22*l.* per ton.

TIN CRYSTALS remain steady at 1*s.* 5*d.* per lb. The market remains quiet.

ZINC PRODUCTS.—Competition in zinc oxide is very keen, and with the market in zinc metal under a cloud, demand is slow in spite of the comparatively low terms quoted. Large makers quote: White seal 42*l.* 10*s.*, green seal 40*l.*, and red seal 36*l.* delivered free on rail. Zinc dust drags; Australian high-grade is called 55*l.* per ton. Zinc ashes are slow at about 7*l.* 10*s.* per ton for 70 per cent. free on rail.

COAL-TAR PRODUCTS, ETC.—There is no change to record. The market continues to have quite a good tone and values are well maintained, as supplies for near delivery are short. Aniline oil and salt are moving in limited quantities at the percentage figures of 1*s.* 2½*d.* and 1*s.* 4*d.* per lb. respectively. Betanaphthol is rather quieter, with values maintained, but not steady at 1*s.* 9*d.* per lb. Burning oil continues in fair demand at the unchanged figure of: Crude No. 3, 8½*d.*; No. 2, 8*d.* per gallon. Carbolic-acid crystals are still slack, 7*d.* per lb. being quoted, but lower figures are governing limited sales made. Creosote oil has not been in much demand this last week. Values are maintained at 9*d.* per gallon. Cresylic acid remains dull, and values are unsteady at: Crude, 1*s.* 10*d.* to 2*s.*; pale straw, 2*s.* 4*d.* to 2*s.* 6*d.* per gallon. Solvent naphtha (90 to 160) continues very steady on a fairly active market at 2*s.* 5*d.* per gallon. Heavy solvent naphtha (90 to 190) is also firm at 2*s.* 6*d.* per gallon. Toluol and xylol are both dull and values nominal.

Hamburg Drug and Chemical Markets

IN the market report, dated August 16, issued by a leading Hamburg wholesale drug-house, attention is drawn to the fact that whereas the available shipping is far in excess of the demands for freights, Germany is once again confronted with a shortage of railway trucks, a proof of the increased volume of trade. With the exception of a few branches of industry, there is more activity to report and a greater degree of employment. Since Germany is now at the mercy of its enemies, without a friend in the world, defenceless, and entirely dependent upon foreign countries

economically, always in danger of being invaded and utterly destroyed, contrary to all truth regarded in the whole world as being culpable, in addition to internal political strife, it can only be saved by work, application, and organisation. "It is the tragedy of Socialism that it has increased the gulf separating human beings from one another, instead of promoting co-operation, and there is a greater need of bringing people together than of socialising the means of production." Business is now gradually assuming a more ordered appearance, and orders are coming in to a somewhat greater extent. As regards export, the depreciation in German currency has led to increased buying for abroad, and there is a general upward tendency for quotations. The following prices are in marks per kilo.:

AGAR-AGAR is in very brisk demand, and the price has advanced to m.95 for Kobe I. and m.88 for Kobe II., for orders of original bales, while broken bulk is quoted at m.103 and m.95 respectively. The price is still further advancing, and new arrivals scarcely affect the stocks held, owing to the great demand.

ASPIRIN, at m.190 for export, is particularly cheap.

BALSAM PERU.—Genuine is in slight demand at m.275; artificial has been in demand by foreign buyers at m.125.

BENZALDEHYDE, almost free from chlorine, for foodstuffs, owing to a brisk demand remains firm at m.40, and for export m.43.

BENZOIC ACID and SODIUM BENZOATE.—As the season for their use is now approaching, these have been in greater demand, and at m.36, for export m.40, show a rising tendency.

BISMUTH SUBGALLATE is lower at m.215.

CAFFEINE (PURE).—Only in slight demand at m.625.

CAMPHOR.—Japanese slabs have advanced to m.145 in consequence of a brisk demand.

CAMPHOR POWDER (genuine) is cheap at m.120.

CHAMOMILES.—From all the centres of production reports are coming in to the effect that only a small harvest is expected; stocks will not suffice to meet the demand until the following harvest. Prime German chamomiles are quoted at m.46 (new harvest), new Austrian m.42, while prime 1920 harvest is offered at m.28 and ordinary quality m.20.

CITRIC ACID has been in good demand at m.72, and for export m.73.

COUMARIN is in slightly better demand at m.275.

CREAM OF TARTAR (98/100 per cent.) is apparently commanding increased interest, since supplies from manufacturers are scarce. The price is firm at m.27, and for export m.28.

FORMALDEHYDE.—30 per cent. is offered at m.15.50, and for export m.19, while 40 per cent. is quoted at m.23.

GENTIAN is being briskly sold at m.14.

GUAIACOL CARBONATE.—Small stocks have advanced the price to m.400, and for export m.425.

HELIOTROPINE has recently been in demand at m.275, and for export m.300.

HEXAMETHYLENETETRAMINE is in demand at m.100, and for export m.105.

HYDROQUINONE is practically neglected at m.115.

LYCOPODIUM (genuine) has been in constant demand, and in consequence of its continued scarcity is quoted m.450.

MENTHOL, owing to short supplies and regular demand, has advanced to m.725 for orders of original cases, and m.750 for broken bulk.

MILK-SUGAR.—It is likely that the drought and the consequent scarcity of fodder will lead to an advance in price. For the present it is offered at m.24, and for export m.27.

PHENACETIN is firm at m.155, and for export m.165.

PHENOLPHTHALEIN.—The very large stocks once available have been considerably depleted by a regular demand at m.75, and for export m.85.

POTASSIUM BROMIDE has been neglected for the home market at m.17, but commands greater interest for export at m.18.

POTASSIUM PERMANGANATE is again in demand at m.25, and for export m.26.

POTASSIUM SULPHOGUAIACOLATE has been in demand at m.180.

PYRAMIDON has been in good demand at m.550, and for export m.625.

RESORCIN has been neglected at m.200, and for export m.225.

SALICYLIC ACID.—The demand has increased, while dealers' stocks are diminishing. Quoted at m.35 spot, and for export m.37. The market is firm.

SODIUM BROMIDE.—M.18 for inland and for export.

SODIUM SALICYLATE remains scarce at m.11.

VANILLIN.—The advance in the price of cloves has led to repeated increases by manufacturers. It is offered at m.1,175 for both inland and for export.

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Italian Drug and Chemical Markets

Genoa, August 28.

THE month of August was characterised by a further recovery in the demand for chemicals, pharmaceutical products, and drugs, many clients purchasing owing to the news of increased prices in the countries of origin, while others did so owing to the exhaustion of stocks. The crisis in the Italian chemical industry continued, however, and little improvement could be accomplished owing to the lengthy holidays and to the excessive heat, which rendered work very difficult. The Customs were authorised to consent directly to the exportation of medicinal castor oil. During the first four months of this year England exported to Italy 21.7 tons of pastilles, oils, medicinal products, etc., occupying the first place on the list. In the case of alkaloidal chemicals England exported 124 tons, against 541 tons exported by Germany, 191 tons by France, 122 tons by Switzerland, and 20 tons exported by other countries. The largest importations of quinine salts came from the Dutch East Indies (2,116 kilos.), England supplying 244 kilos., Holland, 100 kilos., and other countries, 145 kilos. The United States exported to Italy 5,909 tons of glycerin in 1918 and 2,116 tons in 1919, against only 21 tons in 1920 and nothing during the first four months of this year, when 5½ tons came from England and 24 tons from other countries. Owing to continuous rain the new production of manna received a notable set-back. The extent of the new crop is still uncertain, depending also on the weather. Holders of old crop would not sell their goods, in the hope that prices would rise if new production was small. The importation of chlorate of potash was reduced from 1,608 tons in 1918 to 283 tons in 1919 and to 25 tons in 1920, the principal countries of importation being France and Switzerland, the exportation reaching 409 tons in 1920, against 346 tons in 1919 and 17 tons in 1918. No importation took place during the first four months of 1921, whereas exportation increased to 1,054 tons, against 17 tons in 1919 and 277 tons in 1918 for the same four months. The importation of carbolic acid reached 1,065 tons in 1920, against 1,937 tons in 1919 and 2,663 tons in 1918. In 1920 531 tons was received from England, 358 tons from France, 63 tons from the United States, and the rest (113 tons) from other countries. Only 46 tons was exported in 1920, against 62 tons in 1919. The importation of salicylic acid was 81.7 tons in 1920 (comprising 0.8 ton on account of war reparation from Germany), against 53.1 tons in 1919 and 63.5 tons in 1918. The countries of exportation were principally England, France, and Germany. The exportation of salicylic acid from Italy reached 5.8 tons in 1920, against 2.6 tons in 1919 and 0.7 ton in 1918. The English pound sterling started the month at lire 86.50, and finished it at lire 87.50; the United States dollar ended towards lire 24.30; the French franc remained towards lire 1.80; the German mark oscillated between lire 0.25 and lire 0.27. The firmness of the foreign exchange had the effect of keeping most products unchanged, whereas the increased importation duties and other special reasons allowed an increase in a few others. The following declined: Commercial acetone, glacial acetic acid (98-99 per cent.), citric-acid crystals, nitric acid (30° Baumé and 42° Baumé), tartaric-acid crystals, ammonia (22° Baumé), bisulphite of soda (32° Baumé), borax crystals, carbonate of lead, chlorate of potash, calcium chloride (75-80 per cent.), French hypochlorite, cream of tartar, metabisulphite of potash, sulphate of alumina (14-15° Baumé), etc. Some of the current prices prevailing at the end of August were as follows, the exchange being reckoned at lire 87.50 to the English pound sterling:

Pharmaceutical Products

	Lire per 100 kilos.
Acetic acid, glac.	795
Acetone, pure	950
,, commercial ...	400
Alcohol, denatured 90° ...	400
,, ,, 95° ...	1,025
Ammon. carb., lump... ...	300
Ammonium chlor., lump (98-100)	450
Ammonium chlor., lump (95-96)	400
Antimony sulphide, inmp ...	500
,, ,, powder	550
Boric acid, crystals	700
,, ,, large flakes ...	825
Camphor tablets	3,000
Carbolic acid, cryst., 39° to 40° C.	800
Carbolic acid, liq., 95 p.c. ...	350
Castor oil, medicinal... ...	600
Ceresin, pure white	900
Cod-liver oil, medicinal ...	550
Glucose, 45° Bé.	330

	Lire per 100 kilos.
Glycerin, refined	650
,, d.d. s.g. 1·260 ...	850
Honey, white	650
Hydrogen peroxide (10 vol.)	210
Magnes. carb., lump... ...	500
Magnesium chloride ...	125
,, sulph.	45
Naphthalene flakes	240
Oxalic acid, crystals... ...	850
Pot. chlorate, powder ...	340
,, ,, santonin xtals.	360
Potash permang.	1,000
Quinine citrate ...	70,000
,, sulphate ...	50,000
Soda pruss., yellow	1,000
,, salicylate, crystals ...	1,500
,, sulph., anhyd., fused ...	65
Sulphur, refined	88
Vaseline, best white... ...	950
Wax, veg., Jap.	950
,, carnauba	1,300

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Dispensing Prices

SIR,—I agree with your correspondent "Fair Pay" (*C. & D.*, August 27, p. 65) that the scale of pricing for dispensing-work as advocated by some of the retail lists is too high for many districts, although we should like to adhere to them. My method is on the same lines as "Fair Pay's," though slightly different in detail, and for the prescription he quotes would be as follows :

		d.
Tr. valer. ammon.	ʒiv.	2
Tr. sumbul	ʒiv.	4
Tr. nucis vom.	ʒiss.	1
Ext. glyc. liq.	ʒiv.	2
Aq. menth. pip (not ex conc.) ad	℥viij.	4
Bottle		3
		16
+50 per cent. profit		8
Dispensing-fee ...		6
		30*d.*

It will be noted that I have added the cost of the container although provided by the customer, as with the present price of bottles, if the customer requires the mixture repeated without bringing a container, it means a sum of 3*d.* or 4*d.* being added to the previous price and entails some explanation, so that I always price out c.v. and then deduct 2*d.* for s.v., which is fair to both sides. I have used this system for some time, and have compared it with other lists and also with scripts that have been marked with a private mark in other counties and have found it to work very favourably, being neither high enough to upset the customer nor low enough to cut the legitimate return for one's work.

Yours faithfully,

CONTAINER (19/9).

SIR,—In the example given in "Fair Pay's" letter (*C. & D.*, August 27, p. 65) there is a difference in cost of ingredients of 3½*d.* between the two methods; in the second method the item for time and overhead charges is reckoned from one-sixth of an hour, which, in my opinion, is too high. I should say four to five would be nearer an average hour's work, taking it for granted that the dispenser copies, dispenses, and finishes. Further, to say that the first system failed because the charges were too high is practically the same as saying that the public fixes the price and the chemist does as he is told. In the South Coast town where I work the system of marking scripts with "Bishopgate" letters has been followed with the greatest success for about two years—the extension of such a system is all that is needed to make charges nationally uniform or near about. You will say that the multiple shops would not adhere—well, never mind, low price is not the deciding factor in the public's estimation, as we can prove in many instances. When we learn to put a higher value on our services the public will respect us more than they do at present.

Yours, etc.,

DISPENSER (30/8).

Photographic Developing Business

SIR,—With reference to "D. V. L.'s" letter in the *C. & D.*, August 13, perhaps a few notes from one who still believes pyro one of the finest developers may be of interest. The pyro stain is expected and desired by those who know the advantages of using this developer, but, as "D. V. L." says, it is objected to by most amateurs. In consequence the use of pyro for developing amateurs' negatives is not advisable. Then, of course, there is the staining of the fingers, which is objectionable to anyone but the real enthusiast. Next to pyro, "M.Q." gives all that can be desired, but it is necessary to get the proper "balance" and correct proportions, not so much on account of the negative, but so as to satisfy the idiosyncrasies of the user; for, after all, development is an art, not a rule-of-thumb method. Having obtained a formula suitable to his peculiarities the photographer should stick to it. The alternative is to adopt a good developer made by a reliable firm, get to know it thoroughly, and all difficulties will disappear. Of such developers I very much prefer D.50, with which I have worked for some time, and find it as near perfection as possible. It does not stain, the image builds up gradually, the gradation is perfect, and there is sufficient latitude in exposure to make the obtaining of good negatives easy. D.50 has the further advantage of being equally efficient for prints and negatives, but what appears to me to be its unique superiority over other developers is its economy in use, particularly as a tank-developer. With regard to frilling, I can only say I have not met with it in recent years. I note that "D. V. L.'s" suggestion is to use the alum bath between development and fixing; hence it is obvious that the frilling and blobs occur in fixing. For some reason the *rationale* of fixing is not well understood by the majority, and I believe most photographers use hypo too strong, a dilute solution being quite sufficient. It appears to be a common practice to take a plate out of the dilute developing solution and put it in a comparatively strong hypo solution; uneven penetration, with frills and blobs, is the natural result. I am not thoroughly conversant with the physics of this, but I know, from practical experience, that the use of dilute hypo eliminates all possibility of frills and blobs. With regard to "D. V. L.'s" suggestion that two people are required to do the work, this is not necessary if each developed plate be rinsed under the tap, or in the case of long films in a bucket of water; the superfluous developer is thereby washed away. Then by rinsing in a very dilute hypo solution no further action takes place, and the negatives can be put in water and left, and if desired they can be exposed to weak daylight and fixed in hypo at a more convenient time later on. So long as the action of the developer is stopped, the plate can be fixed outside a dark room. The leaving of the fixation until later allows one to give all time and attention to the development, and moreover it does away with contamination of the development by hypo. For stopping the action of the developer a dilute solution of hydrogen peroxide is quite good, but the desired effect can be obtained just as well with dilute hypo. Negatives can be dried readily enough if left in a good draught, but if speed is vital methylated spirit may be used; and it is advisable to immerse the negative in the spirit in such a way that the whole of the plate is saturated thoroughly and uniformly.

Yours faithfully,

J. HERBERT,

Late Proprietor, Herbert Studio.

137 Praed Street, London, W. 2.

Dangerous Drugs Act Regulations

SIR,—The further authorisations issued last week under the Dangerous Drugs Act (*C. & D.*, August 27, p. 58) reduce the whole thing to a state of chaos which is enough to drive a retail chemist to a condition of lunacy, and will bear most heavily on provincial chemists who deal with farmers and others likely to hold these authorisations. With regard to the ordinary pharmacist, he has to be satisfied that the doctor's signature is genuine, unless the script is written on an official form not yet issued, and if the signature is not that of one of those doctors whose prescriptions he is handling daily, he has no option but to refuse to dispense it or run the risk of a criminal prosecution. A writer in "The Script" for August, dealing with these regulations, advises that in the case where the scripts are not in order as to details, the pharmacist should dispense and settle with the doctor afterwards. If he worked in my neighbourhood he would either be laughed at or ordered out of the surgery as the case might be, the doctors being a law to themselves and not likely to worry about any regulations. And I think

I am right in my idea that the legal penalties only apply to the chemist for dispensing and not to the doctor for prescribing; if I am wrong and they do apply to the doctor as well, so much the better. By the way, what would the position be if, in view of the heavy fees demanded for licences, the wholesalers decided that the amount of trade did not make it worth while to take out these licences? Yours faithfully,

CHAOTIC (27/8).

Drugs in Dysentery and Diarrhœa

SIR,—In consequence of the prolonged heat, the correspondence on the above subject inaugurated in the *C. & D.* by the late Dr. J. C. McWalter this time last year has assumed special importance. In view of the tendency to use new remedies, such as emetine and the like, it is interesting to find two old friends like rhubarb and calomel lauded to the skies, the former in the "Lancet" and the latter in the "British Medical Journal." In the former journal Dr. R. W. Burkitt, of Nairobi, British East Africa, states that acute bacillary dysentery has been treated in that colony almost exclusively with powdered rhubarb for the past three years. The dose given has been 30 grains every two or three hours until the rhubarb appears in the stools. After a few doses the stools become less frequent, hæmorrhage ceases, and straining and the other symptoms of acute general poisoning, which characterise the disease, rapidly disappear. In children 5 grains is given every two hours for three doses only, as, if the administration is continued longer, the drug will cure the dysentery but produce an obstinate simple diarrhœa. In both adults and children the thirst is combated by small, frequent doses of bicarbonate of soda and citrate of potash. Dr. Burkitt concludes: "I know of no remedy in medicine which has such a magical effect. No one who has ever used rhubarb would dream of using anything else. I hope others will try it in this dreadful tropical scourge." In the "British Medical Journal" Dr. W. E. Fellowes, of Nuneaton, feels it his duty, in view of the present heat-wave, again to call the attention of the medical profession to the unappreciated value of calomel as a remedy for summer diarrhœa, especially in infants. He has had thirty years' experience of its use, and where properly administered has never known it to fail. He writes:

Calomel is not the poisonous drug it is popularly supposed to be. I have given it in large doses to infants of a few weeks old without noting any deleterious effect. The secret of success seems to lie in the quantity administered; so much so, that I have come to the conclusion that if calomel fails to cure diarrhœa it is because sufficient of the drug has not been administered. I give infants 2-grain doses every two hours until the symptoms subside. In cases of vomiting where the drug is rejected I add an equal quantity of oxalate of cerium. . . . For adults I prescribe 5-grain doses, with or without cerium oxalate according as vomiting is present, every two hours until the diarrhœa subsides.

Dr. Fellowes reports the cure in a few days of a case of chronic diarrhœa by this method of treatment (probably dysenteric) in a soldier returned from abroad. Your readers with tropical experience will know that, prior to the introduction of ipecacuanha, mercury, especially in the form of the subchloride, was the sheet-anchor of many tropical practitioners. I have no experience of rhubarb in the treatment of dysentery, but in view of the defects of the saline treatment I commend the Nairobi treatment as well worthy of trial. As regards calomel, long years of practice under tropical skies lead me strongly to endorse Dr. Fellowes' praise of the drug as an intestinal antiseptic.—Yours sincerely,

AN INDIAN PHYSICIAN (7/8).

Prescription Envelopes

SIR,—The interesting article by Mr. W. Mair on "Pharmacy in Norway" (*C. & D.*, August 13, p. 47), and especially the reproduction of the prescription envelope with the design of the swan, brought to my mind the recollection that in my pharmaceutical travels as an assistant abroad in pre-war times I started a collection of foreign and Colonial prescription envelopes, some of which I enclose for your inspection. The Danish one is curious, showing the doctor writing a prescription at a desk which is more in keeping with the consulting-room than the patient's bedside, shown in the background, while the bottle of physic with label attached is resting in a niche in the wall. The Spanish one shows a view of the street and another of an interior with stills, while the design is ornamented with the serpent. The one from Wiesbaden is businesslike, and has evidently been printed and presented to the pharmacist by the Sanatogen Company; with the usual method and economy of the German, this envelope is ruled with cash columns, and acts as a bill as well. The next one, from Paris, is the plainest I have seen, merely the name and address of the pharmacy printed on a plain envelope. The Maltese pharmacies specialise by calling themselves British or English dispensaries; needless to say, there is no Englishman connected with them. The rest are mostly Colonial, and are on more or less orthodox lines, showing unmistakable signs of English origin. I have also enclosed a Russian label, which does away with the need of an envelope at all, being attached to the neck of the bottle and having the prescription copied on the reverse.

Yours faithfully,

COSMOPOLE (13/8).

Carriers' Liabilities

SIR,—In spite of the attention that has been drawn by correspondence and otherwise to the fact that railway companies and other carriers consider the addition of the word "Unexamined" as constituting a clear signature, there are still some people who are not yet cognisant of the fact. Twice this week I have received circulars from wholesale firms stating that as pilfering is still going on to a large extent, will I sign for all goods as "unexamined"; while other firms have a label to this effect pasted on the cases. The retailer who follows this advice and finds that his goods have been pilfered will get no satisfaction of his claim, but I am informed that by writing "Contents and condition unknown" he is protected, or if the case appears to be broken or in any way unsound, it is best to sign "Received damaged." If the more important traders in those towns where the companies are most difficult in this respect would agree to institute a system of opening and checking goods while the carman waited, we should doubtless find a more reasonable attitude speedily adopted by the railway autocrats. Yours faithfully,

PILFERED (30/7).

Insurance Dispensing

SIR,—At the meeting of the Middlesex Insurance Committee (*C. & D.*, July 30, p. 61) a chemist was censured for repeating and charging for a panel script, and it is satisfactory to know that the Ministry of Health are to be asked to issue an official instruction on the question, as it has long been a debatable point as to what a chemist should do in the circumstances. There are occasions on which a panel patient has difficulty in attending the surgery at the opening hours, or finds it so full that he cannot wait, and frequently the doctor hands the patient the triplicate form to keep, and in these cases the panel chemist is sometimes asked to make up the medicine and charge for it in the usual way. Now perhaps he will know exactly where he stands in this matter; at any rate, in the case in point he could not be censured for excessive charge, as under the system of pricing adopted in the published lists, the dispenser's time and establishment charges alone would nearly swallow up the shilling. After reading this case, I came across a report in a daily paper of an inquiry held on the action of a doctor whose dispenser had been prescribing for patients and writing out scripts, and although it is true that his removal from the panel was recommended, it is an interesting sidelight on the psychology of the medical mind, which while objecting to a qualified chemist repeating a prescription which a customer has had prescribed before by a doctor, yet on the other hand apparently sees nothing alarming in a person without medical degrees filling in the prescription form itself. Yours faithfully,

PERPLEXED (1/8).

Legal Queries

W. & Co. (29/8).—The chlorodyne and the cocaine ointment are the only two preparations in your list that come within the Dangerous Drugs Act.

A. J. F. (23/31).—The amount of morphine acetate in the cough-mixture formula you send is not a sufficient quantity to bring the mixture within the Dangerous Drugs Act.

H. T. C. (22/31).—The cough mixture containing tr. opii ʒvss. in ℥clxxxvj. is outside the Dangerous Drugs Act. The mixture contains a little over 14m per oz., and the safety limit is 95m per oz.

A. & N. (29/8).—A lambing oil containing liq. opii sed. ʒiiss. in ℥viij. is outside the Dangerous Drugs Act, and so is a colic drink with tr. opii aq. ʒj. in ℥viij. The safety limits are given on our Dangerous Drugs Act Card.

J. J. H. (22/8).—An error crept into the reply we gave you last week through the transposition of figures. The preparation contains 1 gr. morph. hydrochlor. in 2.07 oz. (not 2.07 gr. in 1 oz.), and is therefore outside the Dangerous Drugs Act.

J. B. (31/8).—Liability to stamp duty is incurred if the word "antiseptic" is used with a reference to an organ of the body. Thus "antiseptic throat lozenges" is a dutiable title (see *C. & D. Diary, 1921*, p. 264, under paragraph "Medical Terms").

J. M. (29/8).—As you are not an authorised person under the Regulations of the Dangerous Drugs Act you may not, after September 1, be in possession of any of the drugs mentioned in the definitions. These include liq. morph. hydrochlor. and tr. opii.

H. E. H. (26/8).—Your cough mixture containing 210 grains of morph. hyd. in 592 oz. is outside the Dangerous Drugs Act, the amount being one grain in 2.82 oz., apart from any question of sp. gr. The error your refer to is corrected in this issue.

H. P. J. (23/8).—(1) The infants' preservative containing tr. opii mij. per oz. is outside the Dangerous Drugs Act. (2) A cough-mixture containing chlorodyne in the proportion you give works out at approximately 0.073 per cent. of morphine, an amount which is outside the Act.

O. D. C. (30/8).—The Dangerous Drugs Act was printed in the *C. & D.*, II., 1920, p. 1239, and the Act can be obtained at the Stationery Office for 2*d*. The Regulations under Sections 3 and 7 made under the Act were printed in the *C. & D.*, I., 1921, p. 739, and can be purchased for 1*d*. and 2*d*.

W. R. H. (29/8).—You will see by the table printed elsewhere in this issue that Collis Browne's Chlorodyne, Freeman's Chlorodyne, and Teasdale's Chlorodyne are outside the Dangerous Drugs Act. The other proprietary article you mention is, we believe, also outside the Act, but we will endeavour to ascertain definitely.

J. H. M. (21/35).—The Cocaine and Opium Order made under the Defence of the Realm Act and continued by the War Emergency Laws Continuance Act lapsed on August 31. The Regulations under the Dangerous Drugs Act came into force on September 1, on and from which date you must carry out the procedure laid down in the Regulations.

J. P. (26/8).—(1) An unqualified person may not carry on the business of a chemist and druggist in Great Britain even if he employ a qualified manager. (2) As to partnership between a qualified and an unqualified person see reply to "A. R." (3) The formation of limited companies is fully explained in *The Chemist and Druggist Diary, 1921*, p. 299.

F. C. (20/25).—We published the full Regulations for hospitals in the *C. & D.*, August 27, p. 59, and an abstract of them on p. 55 of the same issue. We do not at present propose to issue these in card form, but our Dangerous Drugs Act Card will be necessary for hospital dispensers on account of the percentage tables and other information regarding prescription calculations.

E. W. E. (26/8).—The Dangerous Drugs Act Card was issued primarily for chemists' use, but if we found there was a demand for the information in pamphlet form for distribution to medical men we would consider the question of meeting it. Our experience is that medical men take very little interest in the matter, which is unfortunate from the chemist's point of view, as it is the chemist upon whom the responsibility will fall as to the correct form of the prescription.

O. W. (29/8).—The executors of a deceased chemist are by Section 16 of the Pharmacy Act, 1868, allowed to continue the business so long as a qualified manager is employed. The certificate of qualification of the manager must be exhibited on the premises. If the business were formed into a private limited company the manager could arrange to purchase the shares of the executors. It will probably be found that the formation of a limited company would be the most satisfactory for all parties.

A. T. (25/8).—The Home Office informed us (*C. & D.*, II., 1921, p. 173) that chemists, as authorised persons, may supply "dangerous" drugs to medical men for use in dispensing without being licensed as wholesalers. The order for the drug must be in writing, and the chemist must be satisfied that the order is a genuine one. We recommend that you should enter the transaction in the poison-book and subsequently in the index-book, but if you are keeping the full records, the transaction will be entered in the ordinary manner.

G. B. D. (30/8).—We recommend entry of sales of "dangerous" drugs to doctors (who are "authorised" persons) to be entered in the poison-book, but as these are considered by the Pharmacy Act administrators to be wholesale transactions no signature is required. You must, however, have a written order from the doctor. The poison-book entry is afterwards indexed in the Index book, but if you keep a record in the typical form laid down in the Regulations you should make the entry in the sale or supply section of the book.

F. J. B. (27/8).—The question as to whether you, as a wholesale druggist, can supply to a poor person a free bottle of a mixture containing tr. opii ʒij. in ℥viij. depends upon the terms of your wholesale licence. We have not at the time of writing seen the full conditions of the wholesale licence. As the dilution of the tr. opii is sufficient to take the mixture outside the Dangerous Drugs Act, the poor person may have it in his possession, whereas if the mixture had contained a larger quantity of tr. opii, so as to bring it within the Act, he could only have had it in his possession if it had been supplied on the prescription of a qualified medical practitioner.

F. G. H. (24/8), is a chemist who dispenses for a medical institute which has a resident doctor; what Regulations under the Dangerous Drugs Act should the dispenser carry out? [The easiest plan in this case would be to carry out the Regulations applying to chemists' shops, the only difference being that no sales (only supplies) are made. Purchases of drugs by the chemist will be entered in the record, and prescriptions written by the doctor, in accordance with the Regulations, which contain "dangerous" drugs should be entered in the prescription-book, to which references would be made in the index-book. The name and address of the patient will be needed on the prescriptions. Drugs required by the doctor for personal administration to patients should be entered up as you would sales.]

Pharmakon (27/8).—(1) A mixture containing 1 gr. morph. hydrochlor. in an ℥viij. mixture is outside the Dangerous Drugs Act. The safety limit is 1¼ gr. per oz. (see Dangerous Drugs Act Card). (2) We recommend that Insurance prescriptions which come under the Dangerous Drugs Act be entered in the prescription-book, and that appropriate reference be made in the index-book. Those you mention are what is required for entering in

the index-book. The doctor need not give his address on an insurance prescription, but must give the name and address of the patient. Many prescriptions issued under the National Insurance Acts do not give the address of the patient.

Jack (23/8) and his wife conduct a patent medicine and drug stores. They employ a woman daily, who, in addition to doing all the domestic work of the house, sweeps and dusts the shop, washes the dispensing bottles, and, occasionally, fetches goods down from the store-room or assists in doing up packages. Must the woman be insured under the Unemployment Insurance scheme, and, if so, would she be entitled to benefit in the event of her leaving her situation voluntarily? [As the woman is, to some extent, employed in the business she must be insured against unemployment. She will not be entitled to benefit if she voluntarily leaves her employment "without just cause."]

A. R. (27/8).—Unqualified Partner.—It does not follow that an unqualified man who is a partner with a qualified man infringes the Pharmacy Acts when the firm carries on a chemist's business. The unqualified man may be a sleeping partner, or the partnership may be a limited one. If, however, the unqualified man's name is used in such a way as to identify him as holding himself out to be a chemist he could be proceeded against. If, again, an unqualified partner takes any part in the conduct of the business he is almost certainly liable for keeping open shop for the retailing of poisons. It has not, however, been decided that "keeping open shop" includes mere ownership of the business, and in that way makes the unqualified man liable for penalties for infringing the Pharmacy Acts.

Puzzled (29/8).—By Regulation 9 (*g*) of the Dangerous Drugs Act you are required to furnish to duly authorised persons all information in regard to (1) any purchases of "dangerous" drugs, (2) all stocks held of the drugs, and (3) all transactions effected in the drugs "as may be required by the Secretary of State for the purpose of seeing that the provisions of the Act are observed." The "provisions of the Act" deal with "dangerous" drugs, a class of articles containing more than a certain percentage of cocaine, heroin, morphine, etc., and the argument is that preparations and dilutions below the limits are outside the Act and need not be recorded. If, in the hypothetical case you state of an entry being given of the purchase of a "dangerous" drug and no entry of sale or supply, because the drug was used in articles of such a strength that they were outside the Act, we take it that the information supplied to the authorised inquirer would be that it had been used for purposes outside the Act. You would not be justified in refusing information.

A. H. (24/8).—Tr. Cocæ as a "Dangerous" Drug.—The reason why we printed tr. cocæ in italics (as being outside the Dangerous Drugs Act) was because there is no definite standard for it. The U.S. Pharmacopœia VIII. had a standard for coca leaves "not less than 0.5 per cent. of ether-soluble alkaloids," which was copied into the British Pharmaceutical Codex, but is not included in the U.S. Pharmacopœia at present in force. Coca leaves are known to contain more alkaloids than 0.5 per cent., but, on the other hand, many samples of coca leaves are almost devoid of alkaloids. We assumed that, although the statement of the U.S.P. VIII. does not amount to a standard, as only the minimum of alkaloids was stated, manufacturers would be justified in adopting 0.5 per cent. as an average content. "Ether-soluble alkaloids" are indicated, and although the greater part of these would be cocaine, this would lower the percentage of cocaine, which is the "dangerous" drug recognised by the Dangerous Drugs Act. A tincture made from the leaves would therefore be outside the Act, assuming that all the cocaine was extracted from the leaves. We do not think that tr. cocæ is used to any extent. Our inquiries of wholesale houses indicate that very little is made, and that this is not usually standardised. We should be pleased, however, to receive analytical data regarding tr. cocæ if any wholesaler can supply these.

Miscellaneous Inquiries

Marie (22/31).—Toilet Balm.—The following is suitable for sale in winter and summer as an application for the skin:

Pulv. tragacanth.	℈ij.
Ol. rosæ geran.	♏xv.
Spt. rectificat.	℥ss.
Glycerini	℥iij.
Liq. cocci	q.s.
Aquæ	℥vj.

Dissolve the oil of rose-geranium in the spirit and add to the tragacanth, contained in a mortar. Mix well, then add all at once the glycerin and water, previously mixed, and stir until uniform.

J. C. (South Africa) (11/8).—(1) Sunburn Lotion:

Ac. salicyl.	ʒiij.
Boracis	℥j.
Aq. rosæ	℥xiij.
Aq. flor. aurant.	℥xiij.

Dissolve and filter and to the solution add

Aq. coloniensis	℥ij.
Tr. benzoin.	℥j.

Mix.

Directions: Apply to the skin of the face and neck with a soft rag before and after washing.

(2) Worm Syrup:

Ext. spigeliæ liq.	ʒiiss.
Syr. sennæ ad	℥ij.

Dose for a child, one to two teaspoonfuls.

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Mag. carb. pond.	95 parts
Bismuth. carb.	5 parts

Lung Tonic

Inf. lini	℥lxxx.
Ext. glycyrrh.	℥iv.
Ol. anisi	♏ij.
Ext. scillæ liq.	℥ix.
Ac. acetic.	℥viij.
Mel. vel glucosi	℥ciij.
Syr. tolut.	℥xl.
Tr. capsici	℥j.
Theriacæ	℥cxx.
Chloroformi	℥j.
Ac. sulph. dil.	℥xij.

Household Embrocation

Camphor.	℥j.
Ac. acetici	℥viij.
Ol. tereb.	℥xviij.
Ovi vitell.	iij.
Aq. dest.	℥xiiss.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," September 15, 1871

Advertising is a Necessity

From "En Vacance" Notes by F. H. L.

Of course the *pharmacien* must advertise. This may be considered as unprofessional, but surely in many instances it is simply the act of speaking to a much larger audience than can be reached by word of mouth; it is the act of informing a great number of persons of the excellence of a certain article. On this latter point in the argument—viz., the excellence of the *spécialité*—I insist a great deal. I have been several times told that the advertising would be of little use were not the article so good and had such merits that people would recommend it to one another. Certain it is that many of the most celebrated among these have merits of a high order, whether you regard them as the results of research, as specimens of manipulative skill, or as objects that have a therapeutical power for good. I do not touch, as outside the present question, the rare and dainty style of "putting" up; in the older articles this, however, is frequently not apparent.

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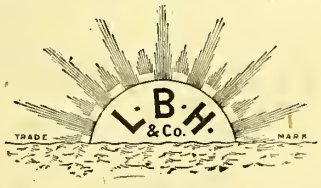

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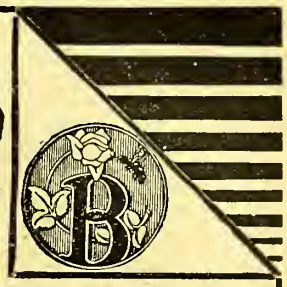

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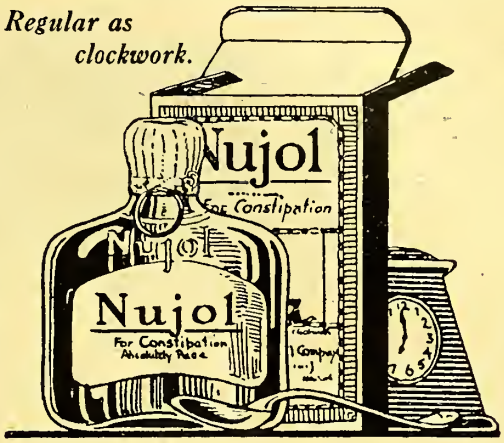

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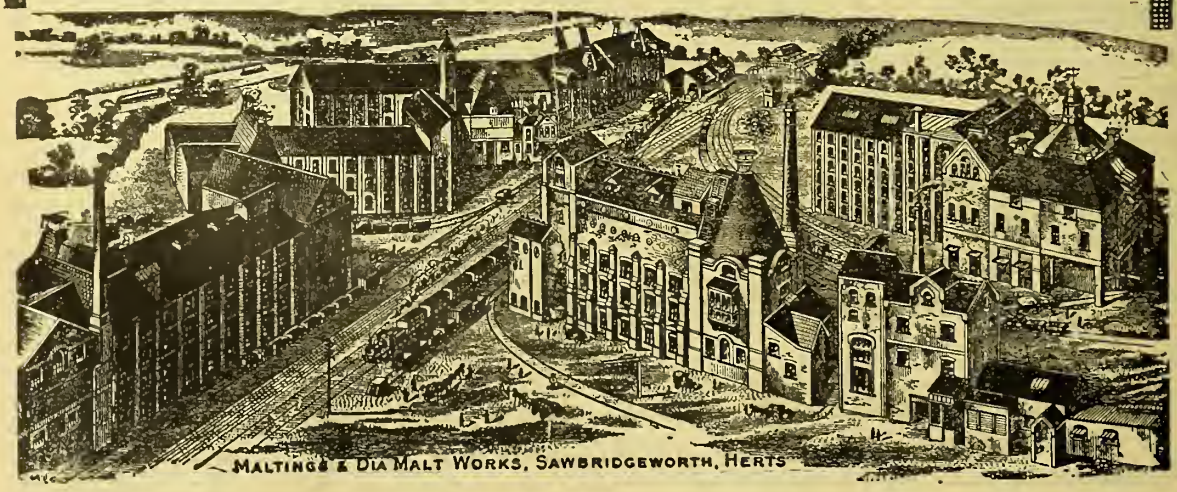

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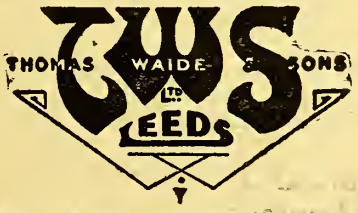

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One quality only—the Best. Guaranteed for two years.

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Each Bottle in a strong paper bag with directions for use.

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MUFF WARMER. Drab Rubber, 4×6 inches. **Each 2/-**

SEAMLESS ENEMAS

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Fig. 987.	The "**B.E.M.**" (best English make) with bone rectal pipe, etc., complete in card box	26	0
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	,, in leatherette case	30	0
	,, extra large and stout, the finest article made	34	0
	Special Line, red unpolished, stout, in card box	30	0
	,, ,, in leatherette case	34	0
983.	The "**Empire,**" black polished, in card box	27	0
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275.	Warne's patent pulse valve enema, arabesque rubber, in card box	45	0
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AIR CUSHIONS

Fig. 1194. The "**Empire**" red india rubber Air Cushion—

Diameter	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.
Each	6/6	7/-	7/6	8/6	9/6	10/6	12/-
Square shape, ,,	10/-	11/-	12/-	13/-	14/6	16/-	18/-

A discount of 5 for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for illustrated price list post free for the asking.

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PADS—Various Shapes and Sizes, Hard or Soft.
ABDOMINAL SUPPORTS,
and SUPPORTS for use following Operations.
ALTERATIONS FREE IF NOT SATISFACTORY.
Illustrated Catalogue Free.

Manufactured Only by
Wm. S. RICE, Ltd., 8/9 Stonecutter St., E.C. 4

Telephone: Holborn 466.
Telegrams: "Ricevendo, Fleet, London."

GETS-IT

(The World-Famous Corn Remover.)

"Gets-It" is a liquid which dries at once when applied to corns or calluses with the glass applicator that accompanies each bottle. Stops pain at once and soon loosens the corn or callus so that it can be lifted right off.

Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

Now Distributed in Great Britain through
THOMAS CHRISTY & CO.
4, 10 & 12 Old Swan Lane, Upper Thames St., London, E.C.4.
Manufactured by E. LAWRENCE & CO., Chicago, U.S.A.

The "VICTRA" Safety Corn-Plane

Simple and Efficient.
Easy to use.
Scientifically Constructed.

Price **9/6** per doz.
Each in box.

Elegant in design.
Satisfactory in results.
Perfect Workmanship.

SAFE IN OPERATION.

NO TROUBLE. NO DANGER. NO PAIN.

A PERSONAL NECESSITY.

WM. EDWARDS & SONS

157 QUEEN VICTORIA STREET, 239 UPPER THAMES STREET, LONDON, E.C. 4.

Ralty Home Dyes

"Press the Bulb and start dyeing."

USING Ralty Dye is simplicity itself, if you can use a fountain-pen filler, you can use Ralty—it's just the same. A thin filter-cloth encloses the dye powder, and the colour can only leave the tube *in solution.*

The colour is rich, even and fadeless, and can be made bright or subdued by simply pressing the bulb.

Housewives everywhere are asking for Ralty Dyes. Supply them and get a good profit! "Once bought, always bought," is the retailer's experience.

WRITE for SAMPLES & PRICES

Art Showcards, Counter Boxes and strong advertising are making the Ralty Dyes an easy and profitable line for the Trade. Write direct to:—

ECROYD & COMPANY

RALTY WORKS, FARNWORTH, BOLTON.

Established 1843.

J. PILLISCHER,

88, NEW BOND STREET, LONDON, W. 1.

Manufacturer of

SCIENTIFIC INSTRUMENTS

and Sole Manufacturer of the

CELEBRATED "INALTERABLE"

CLINICAL THERMOMETER

International Exhibition Awards:—

12 GOLD MEDALS
14 GRANDS PRIX
HORS CONCOURS

Sole & Exclusive Agent for Argentina, Uruguay, Paraguay and Brazil:

Eugenio M. Etchegoin, Calle Maipú, 731, BUENOS AIRES.

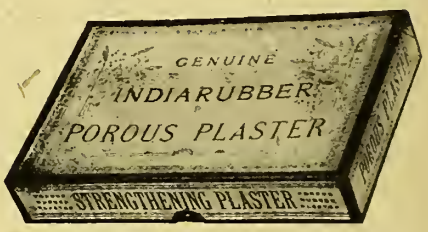
The National Self-Adhesive
RIBBON PLASTERS
(Spools or Tins).

Supplied in various widths and lengths to suit all requirements of Hospital, Medical or Retail Prices.

POROUS PLASTERS of all kinds

Strengthening, Belladonna, Breast, and Kidney Plasters.

N.H.I. Cotton Wool, Lints, Bandages, &c.



Write for Price List to—

A. de ST. DALMAS & CO., Ltd.
LEICESTER.

SAYERS, SILCOX, CUZNER & Co. Ltd.
HULL.

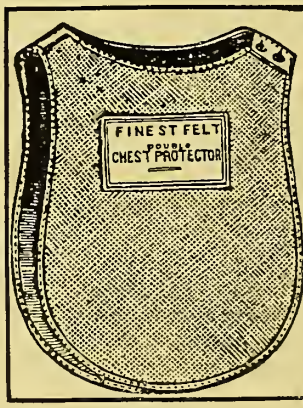
THE
TRUSS
MAKERS

ARE ALSO MAKERS OF

BELTS, CORSETS
SUSPENSORY BANDAGES
CHEST EXPANDERS
CHEST PROTECTORS
PNEUMONIA JACKETS
WRIST - STRAPS
FINGER-STALLS

and all similar articles.

LOWEST PRICES.
IMMEDIATE DELIVERY.



WE GUARANTEE EVERYTHING WE SELL.

Send your inquiries for Chest Protectors, Abdominal Belts, Suspensory Bandages, Finger Stalls, Maternity Corsets, Magnetic Belts, Wrist Straps, Surgical Hosiery, etc., *to the Actual Makers—*

A. B. FROST & CO.
Surgical Hosiery Works
BEESTON, Notts.
Established 35 Years. (1)

Dr. Scholl's
FOOT EAZER

Eases tired, aching feet, corrects flat or weak foot, etc ; comfortable to wear in ordinary size footwear. Retail, 10/6 per pair.

Dr Scholl's
Foot Comfort Appliances

are nationally advertised in the leading newspapers and periodicals, and the public is directed to the Chemists stocking Scholl goods.

Write to-day for Illustrated Catalogue.

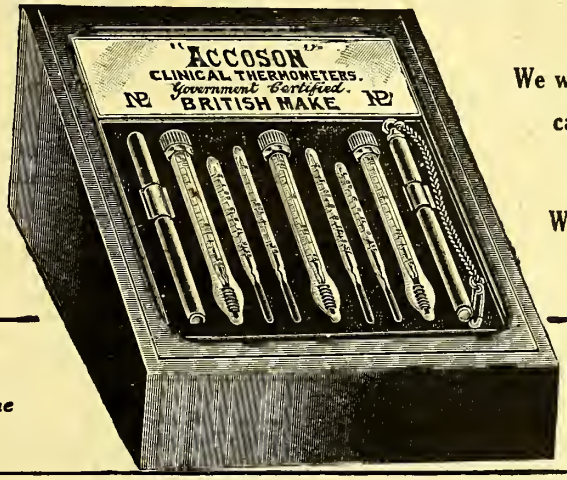
The SCHOLL MFG. CO., Ltd., 1-4 GILTSPUR STREET, E.C.1

A. C. COSSOR & SON

(ESTABLISHED 1859)

CLINICAL THERMOMETERS

Thermometers,
Hydrometers,
Sphygmo-manometers,
Syringes
of every description.



We want to place this show-case on your counter, free of charge.

Write for Catalogue

Original Patentees of the "Easy-Set" Clinical Thermometer.

"ACCOSON" WORKS, VALE ROAD, LONDON, N.4.

Telephone: 1880 Tottenham. *Telegrams:* "Fracosson, Phone, London." (3)

A

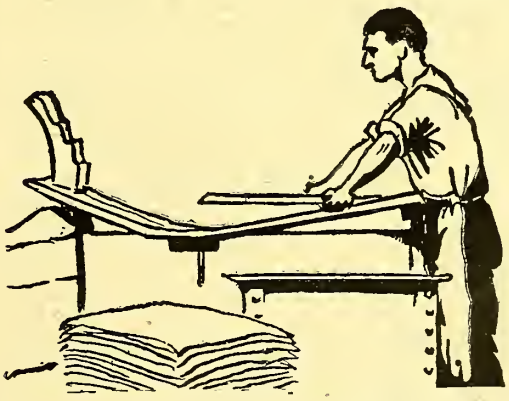
PHILIP JOSEPHS & SONS LTD.

SHOWCASE QUICKLY EARNS ITS COST.

Try One!

93 OLD ST., LONDON, E.C. 1.

Phone—2191 Clerkenwell. Wires—"Josiphiah London."



Making "J. GREEN"

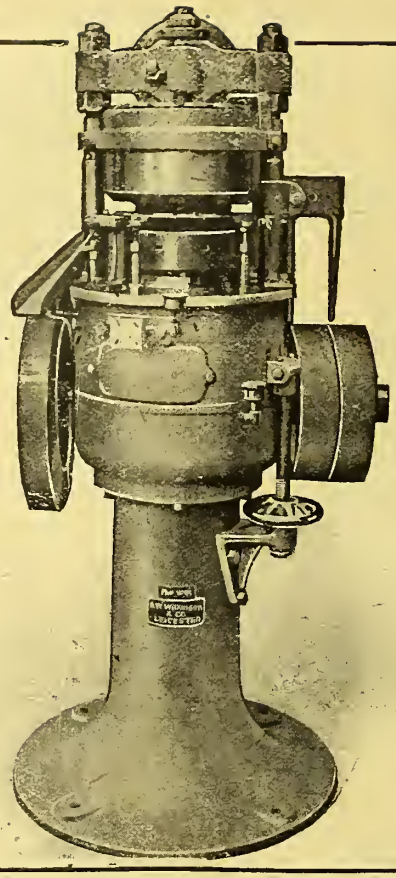
FILTER PAPERS

BY HAND.

Makers:

J. BARCHAM GREEN & SON

(J. Dept.), Hayle Mill, MAIDSTONE.



ROTARY TABLET MACHINES

These Machines are now made in 4 sizes:

12-PUNCH ordinary for tablets from $\frac{3}{8}''$ to $\frac{7}{8}''$ dia. output 400 per min.
20-PUNCH „ „ „ „ $\frac{1}{4}''$ to $\frac{1}{2}''$ „ „ 700 „
12-PUNCH heavy for thick tablets and blocks 1″ „ „ 250 „
18-PUNCH „ „ „ „ „ „ 1″ „ „ 400 „

(PATENT) *Lists on Application*

DURING the war these Machines ran 16 hours a day non-stop.

SINGLE punch machines, made in 5 sizes for tablets from $\frac{1}{8}''$ to $1\frac{1}{2}''$ diameter, also lozenges.

S. W. WILKINSON & CO.

PHARMACEUTICAL ENGINEERS,
WESTERN ROAD,
LEICESTER.

Telephone: 3783 Central.

Telegrams: "Wilkinson, 3783, Leicester."

[2]

ROBERTS' ORIGINAL PATENT

BOTTLE-FILLING MACHINES

"NELSON."

Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for CLEANLINESS SIMPLICITY and Rapidity in Bottle Filling.

NOTE the Address:

ROBERTS' PATENT FILLING MACHINE Co.
33 ROUNDCROFT ST., BOLTON.

Our latest patent "Alpha," price **£14**, will fill 10 gross bottles per hour.

Write for Particulars. *All rights reserved.*

"ATLAS" PATENT

SIFTERS & MIXERS

Designed to combine simplicity, accessibility, and ease of operation.

DRYERS
GRINDERS
BALL MILLS

HIND & LUND, LTD.,
ATLAS WORKS, PRESTON.
Established 1791.

(2)

'MILNER' Straw Hat Cleaner

Trade Mark

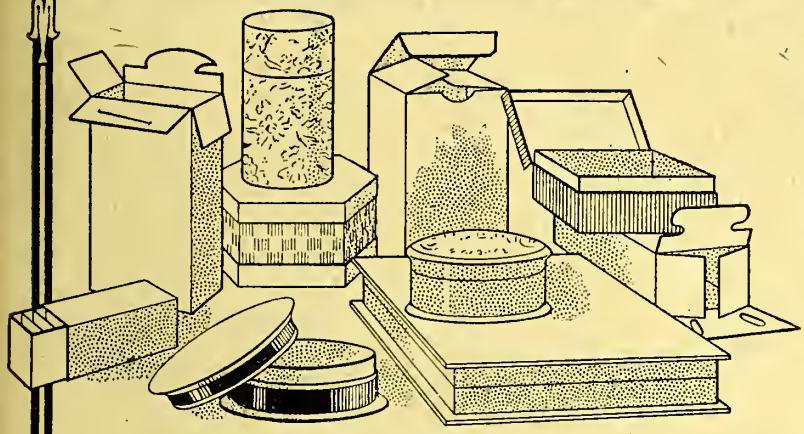
12 years' reputation—testimonials constantly received. 3*d*. per packet.

PRICES:
6 dozen, **10/-** net
12 „ **19/-** „

With attractive show matter—carriage paid—13 to dozen for cash with order.

Discount. — Orders of £1, 2½%; £5, 5%; £10, 7½%.

Milner's Chemical Co.
LIVERPOOL.



IS THE BOX YOU ARE LOOKING FOR AMONGST THESE ?

YES! Then may we solicit your enquiries when next you are requiring this particular kind of box.

NO! Then we are just the people who can be of service to you. If it is something new you are looking for, then you are just the people to whom we should welcome an introduction. New ideas appeal to us and if you will forward us full particulars or your suggestions we will use our best endeavours to produce for you a box entirely suited to your needs.

ROBINSON & SONS, LTD., CARDBOARD BOX MANUFACTURERS, CHESTERFIELD.

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 43 Great Tower Street, LONDON, E.C.3.

ETNA BRAND

LIQUORICE JUICE. | Sticks and Block.

The Finest on the Market. GUARANTEED PURE.

Write for SAMPLES and PRICES. PROMPT and FORWARD DELIVERY.

Sole Importers: LINTON, HUBBARD & ANDREW, 72-75 Fenchurch St., LONDON, E.C. 3.

Telephone: 1892 Avenue. ABC, and Lieber's Codes. Cables and Telegrams: "LINTEOLO LONDON."

Pyrogallic Acid Gallic Acid

Manufactured by J. L. ROSE

At ABBEY ROAD, BARKING, LONDON, E.

Wholesale and Export Only.

BLACK AND WHITE BRAND

A Speciality of

TUCKMAR'S World-renowned RAZORS.

Obtainable only from—

WM. LUND & SON, 7 WHITTINGTON AVENUE, E.C.3.
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W. H. FAGAN & SON, 71 GT. EASTERN STREET, E.C.2.

Or from the Sole Agent: ADOLPHE SEGALI A, 12 Alexander St., Bayswater, W.2

Jensen's COD LIVER OIL EMULSION

FROM FINEST NORWEGIAN COD LIVER OIL.

Enjoys highest reputation with the Medical profession all over the World.
In Winchesters and Bottles.

SOLE PROPRIETORS—
HERTZ & CO., 9 Mincing Lane, E.C. 3

Established 1878.

Phone: 10607 Central. Telegrams. "Freshness London." [2]

LIQUID BARKOLA COMPOUND

The Well-known Specific for Rheumatism has been on Sale continuously in Great Britain for over 30 Years.

Wholesale 30/- per doz. Retail 3/-

Each bottle (1-oz.) carries instructions to the Chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1-oz.; Tincture of Gentian, 1-oz.; Syrup of Rhubarb, 1-oz.; Syrup of Ginger, 5-oz.

Chemists charge according to their own scale for dispensing.

THE BARKOLA CO., Ltd.,
42 Great Dover Street, London, S.E.1

SELF-FIXING
HERMETIC
WASHABLE
BOTTLE CAPS
ARE
ELEGANT
EFFICIENT
STRONGEST
CHEAPEST
and BEST.

The VISCOSE
Development Co., Ltd.
BROMLEY :: KENT.

FREDK. FINK & CO.,
10 & 11 MINCING LANE, LONDON, E.C. 3.
SPECIALITIES.—Gums Arabic and Tragacanth as imported or finely powdered.

SANTROCYL
JOHN W. MAWSON & CO., LTD.
Medicinal Capsule Makers,
WEST NORWOOD, LONDON, S.E. 27
Phone: Streatham 718.

HERNIA TRUSSES
WITH AND WITHOUT STEEL SPRINGS.
MADE IN EVERY STYLE AND QUALITY.
WHOLESALE AND EXPORT ONLY.
T. SHERBORNE & CO.
33 HONOR OAK PARK, S.E. 23. Phone: Sydenham 517.

CACHETS "FINOT"
(White or Coloured).
With inscriptions in any desired tint; also Plain or Embossed.
"A distinction all their own."—*C. & D.*
"Perfection of Cachets."—*Lancet.*
These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes to fit the various types of Cachet Machines.

SHADEINE
FOR COLOURING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses. Trial Size 8d., per post 11d. 1/4 size, per post 1/8; 2/6 size, per post 2/11; 3/9 size, per post 4/6; 8d. size, 6/- doz.; 1/4 size 12/- doz.; 2/6 size 24/- doz.; 3/9 size, 36/- doz.
THE SHADEINE CO., 58 WESTBOURNE GROVE, LONDON, W.

For GUARANTEED
ATOMIZERS and SPRAYS
THE DEVILBISS CO., LIMITED
WEST DRAYTON, MIDDLESEX.

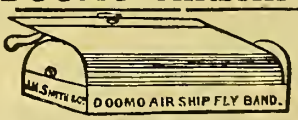
ALL CHEMISTS SHOULD STOCK ABDINE
THE GOLD MEDAL FRUIT DRINK.
Quick Seller. Big Profits. Over 40 years' Reputation.
"Abdine" is the most popular Health Drink, superior to all Mineral Waters. The Original and only genuine Fruit Drink.
Reduced Price List can be had on application.
DUNCAN McGLASHAN, LTD., ABDINE WORKS, WESTFIELD ROAD, EDINBURGH.

John E. Raworth & Moss
Chartered Patent Agents.
Patents, Designs and Trade Marks.
75 Victoria Street, London, S.W.1.

ESTABLISHED 1839
CHEMISTS' OVERALLS
From GARDINER & CO.
We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

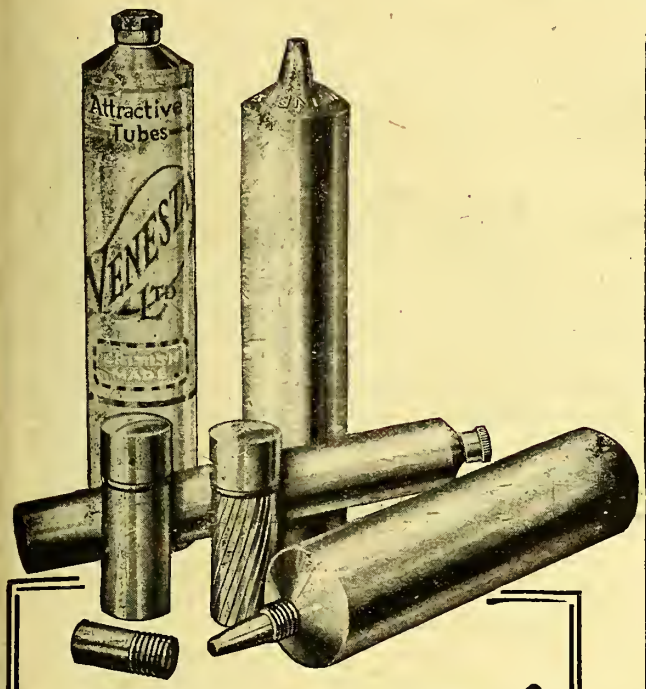
KHAKI DRILL	...	10/6	15/6 17/6
WHITE DRILL	...	12/6	
BLACK DRILL	...	17/6	
HOLLAND DRILL	...	17/6	

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.
GARDINER & CO. (THE SCOTCH HOUSE) LTD.
1 Commercial Road, E.1.
Teleg: "Durastyle, Phone, London." Phone: Av. 6650 (4 lines).

DOOMO AIRSHIP FLY BAND


Write for quotations
A wide, long band, sticky on both sides.
SMITH & CO., Doomo Works, NEWARK

CACHETS
Chemists who pride themselves on the elegant way they put out their pharmaceuticals in Cachet form should write for samples, price, and full particulars to—
THOS. CHRISTY & CO.,
4/12 Old Swan Lane, E.C 4.
Our Speciality for many years. No finer quality obtainable anywhere. Write to-day.



Venesta Tubes

When ordering your next supply of tubes remember that Venesta collapsible tubes possess a quality and finish that make them a real selling force.

They are made from Pure Tin, Lead or Lead-coated with Tin and supplied plain or enamelled and printed with designs to suit customers' own requirements.

We also supply Lip-salve Cases, Sprinklers, etc., and shall be pleased to forward illustrated lists, samples and current prices on application to—

G. Dept.

VENESTA LTD.

1 Great Tower Street, London, E.C. 3.

Actual Manufacturers of

TINFOIL

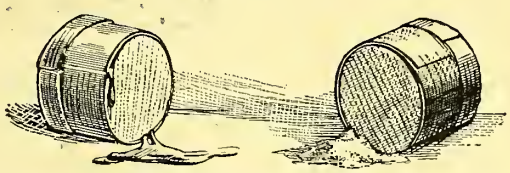
Plain, coloured and embossed in any size, gauge or shape.

"Corruganza" SEAMLESS OINTMENT BOXES

Have replaced the old "Willow" boxes—Greaseproof—the bottoms cannot fall out.

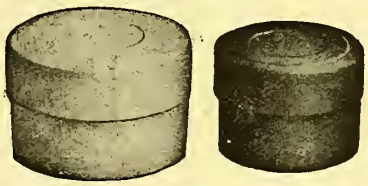
GERMAN "WILLOW" BOXES are again being offered at lower prices, but these boxes will not hold Powders, nor, in warm weather, Ointments.

THEY ARE DEAR AT ANY PRICE.



Stick to the ONE-PIECE principle

"Corruganza" SEAMLESS PILL BOXES.



THE phenomenal success of the "Corruganza" Seamless Ointment Boxes has induced us to offer a series of Pill Boxes made on the same **One-Piece** principle. Stocked in usual sizes.

They cost a little more than the Ring and Disc style, but THEY HOLD THE GOODS, and do not fall to pieces in handling or in the pocket.

Wholesale or Export only from

HUGH STEVENSON & SONS,

LIMITED,

Summerstown Works, London, S.W. 17

And at Manchester, Birmingham, Leith, Perth & Glasgow.

Kindly mention this Journal when replying to the advertisement.

"Requires No Pushing"

Mr. Loggin, Chemist, Stratford-on-Avon, writes, 24/8/21: "Please send Rodine as before. Rodine requires no pushing; customers know it and ask for it. This is the fourth order this year as against three in the whole of 1920." A customer in Much Cowarne, near Bromyard, writes, 22/8/21: "With one-third of a 7½d. tin I found 40 dead rats."

Requires No Signature

TRADE TERMS.

Retail Prices -	7½d.	1/3	2/6	5/-
Per doz. - -	4/-	8/-	16/-	32/-

Minimum Carr. Paid Order £1.

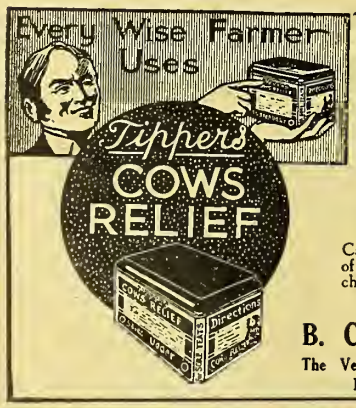
Smaller Lots -	5/-	10/-	20/-	40/-

Net. Cash with Order. P.A.T.A.

Join the great offensive against the offensive rat. To push "Rodine" is profitable. It yields nearly 100 % protected profit. Extensively and attractively advertised.

Send your order now.

HARLEY, Manufacturing Chemist, **PERTH, SCOTLAND.**



WHOLESALE TERMS

Selling Prices:
3/9, 8/9, 16/9, 25/6 per tin.

Invoice Prices:
3/6, 8/-, 16/-, 25/- respectively.

Subject to 20% dis.

Carriage paid on orders of 40/- net. Postage charged on small lots.

B. C. Tipper & Son,
The Veterinary Chemical Works,
Birmingham.

Clean and Dry to Handle

Retaining its adhesive condition long after opening, having a perfect drip-catcher and efficiently carrying on its work of fly destruction, the Wasp Flyband has an enormous sale.

WASP FLYBAND

pays you because it gives rapid turn-over at a protected profit, is clean and dry to handle, and is the most effective fly-catcher sold. Write for prices. Manufacturers—

F. W. HAMPSHIRE & Co., Ltd., Riverside Works, Derby.

The original and oldest STICKY FLY CATCHER in the market. 36 years' reputation.

The 'Fly Cemetery,' in Sheets.
The 'Catch O' Paper ditto
The 'Cemetery' Fly Band, 3in. wide
The 'Swallow' Fly Band, 1½in. wide

Prices on application.

Manufacturers—

Tunbridge & Wright, Reading

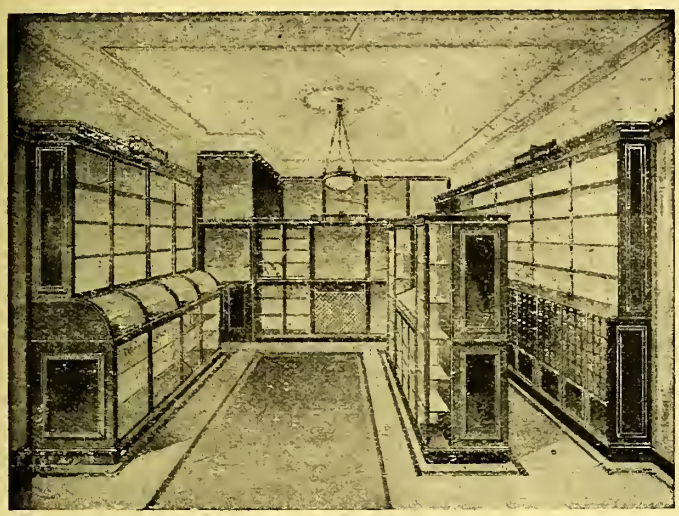
Telegraphic Address—"Flies Reading."

CAPPING SKINS

WHITE AND COLOURED SPLITS, OPAQUE AND TRANSPARENT BAUDRUCHE. SPRINKLERS. GLASS BOTTLES OF ALL DESCRIPTIONS

ARTHUR TOOMBS & CO., Perfumers' Sundriesmen
26-27 Bush Lane, Cannon St., LONDON, E.C.4.

Telephone: Central 13374.
Telegraphic Address: "Deflection, Cannon, London."



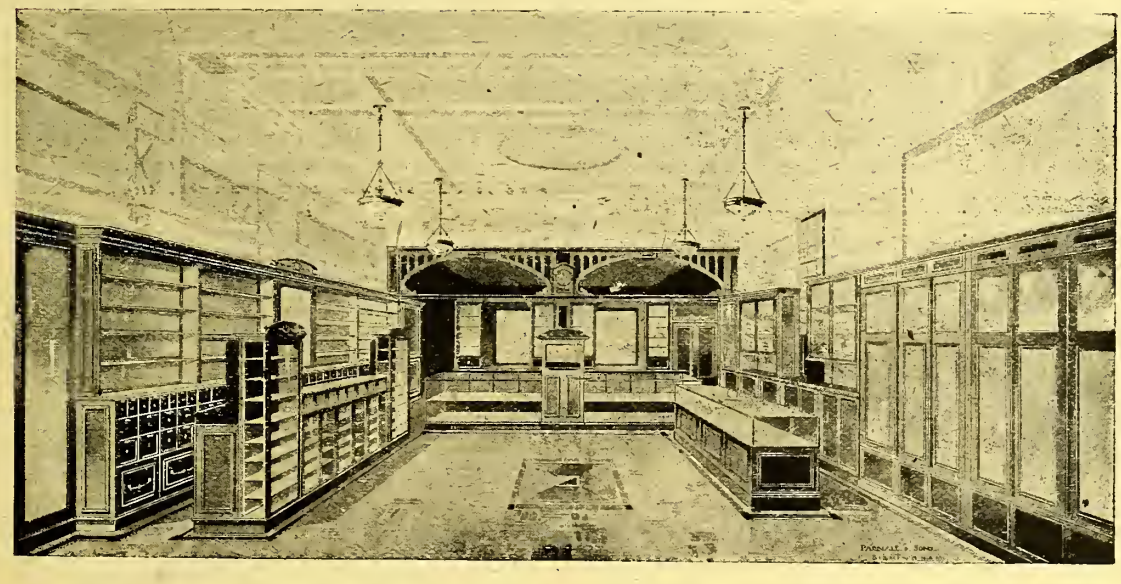
SERVICE INVITES CUSTOM

We give service to you in the way you wish to give service to your customers. Our prolonged study of your requirements is an expression of our desire and ability to serve you.

Our experts are keen, highly trained and experienced men. No problem is too hard for them or too intricate to essay.

Illustrated is typical of our distinctive work.

No. 7255. Complete installation for small premises designed and fitted by us at Tamworth.



No. 7273. Complete Interior scheme at Golders Green, N.W., carried out by us for Messrs. Parks' Drug Stores, Ltd.

OUR REPRESENTATIVES ARE AT YOUR DISPOSAL.

Telephone.....2670 (3 lines).
Telegrams.....*"Utensils."*

WORKS:
BROADMEAD, BRISTOL.

PARNALL & SONS LTD
SHOPFITTING SPECIALISTS
27, SUMMER ROW, BIRMINGHAM.

BUY—

THREE STAR

BATTERIES

and have **THE BEST.**

Ask your Factor for "Three Star," or write direct to the Manufacturers

Made entirely in England with British Capital and British Labour

SUNLIGHT MANUFACTURING CO., LTD.

Telephone: Tottenham 2208.
Telegrams: "Sumabatry, Tottlane, London."

PAXTON ROAD, TOTTENHAM, N.17.

B-C-G-A SERVICE

To the Public

THE British Commercial Gas Association—a co-operative research and advisory body representing the gas undertakings, both municipal and company owned, of the kingdom—is always ready to place the services of its experts at the disposal of members of the public.

The B.C.G.A. believes that the Gas Industry, in co-operation with the individual citizen, has a valuable part to play in moulding the public opinion of the future to appreciate sound principles and act in conformity with enlightened practice in regard both to civics and to hygiene. Householders or housewives who require specific information or advice have only to apply to

The Secretary

THE BRITISH COMMERCIAL GAS ASSOCIATION

30 GROSVENOR GARDENS, LONDON, S.W. 1

8 C 9

We are now manufacturing

Containers & Cases

of various styles in

Imitation Gold

which easily surpasses Aluminium for

BEAUTIFUL APPEARANCE

The Prices are just as attractive.

Our exhibition of these new imitation gold boxes at the Chemists' Exhibition was a great success. A sample will be sent free to any interested wholesaler or manufacturer.

FRANK BUCKLER, Ltd.

CASTLE WORKS,
Mount Pleasant Road, Tottenham, London, N. 17.

"Volex"
Guaranteed
POCKET LAMP DRY BATTERY
British Manufacture
6/- doz. net.
Best quality Jewel Metal Filament Bulbs.
Clear Type .. 2/6 doz. net.
¾-Opal Type .. 3/- doz. net.

ENCYCLOPAEDIA ELECTRICA

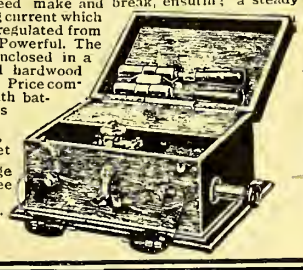
NOW READY.—It comprises 74 pp. illustrating our wide range of Electrical Pocket Lamps, Torches, Hand Lamps, Batteries, Medical Coils, Massage Vibrators, etc. *Send for a Copy, free on request.*
Enclose Business Card or Memo. for Trade Terms.

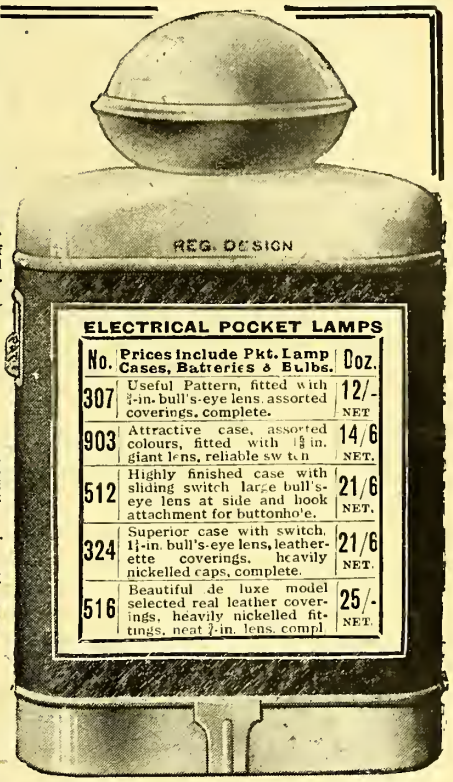
The "LONSDALE" Torch. *(As Illustrated).* Size 6⅝" × 1⅝" A reliable torch at a popular price. Strong and well constructed. Complete with best Battery and metal filament Bulb. Price 24/- doz. net. Spare Refills, No. T112, 8/- doz. net.

The "KIT" TORCH. Size 7½" × 1½" A real torch de luxe, heavily nickelled fittings, permanent and flashing switch, complete with best Battery and Bulb.
Price 5/- each net

ELECTRICAL FLOWERS AND SCARFPINS.
Assorted beautiful Designs.
15/- doz. net.
Complete with Pocket Lamp Cases and Batteries.
Price 24/- doz. net.

The "REDCROSS" Coil.
British Made. Size 8½×6×5 in. Fitted with high speed make and break, ensuring a steady soothing current which can be regulated from Mild to Powerful. The whole enclosed in a polished hardwood cabinet. Price complete with batteries as illustrated, 37/6 net
For large range see Catalogue.





ELECTRICAL POCKET LAMPS

No.	Prices include Pkt. Lamp Cases, Batteries & Bulbs.	Doz.
307	Useful Pattern, fitted with ¾-in. bull's-eye lens, assorted coverings, complete.	12/- NET
903	Attractive case, assorted colours, fitted with 1⅝ in. giant lens, reliable switch	14/6 NET.
512	Highly finished case with sliding switch large bull's-eye lens at side and hook attachment for buttonhole.	21/6 NET.
324	Superior case with switch, 1¼-in. bull's-eye lens, leatherette coverings, heavily nickelled caps, complete.	21/6 NET.
516	Beautiful de luxe model selected real leather coverings, heavily nickelled fittings, neat ⅞-in. lens, compl	25/- NET.

The prices quoted above are for the complete Pocket Lamps, including Pocket Lamp Cases, Batteries and Bulbs.

Ward & Goldstone
PENDLETON. MANCHESTER

"TELPH" MEDICINE GLASSES.

FRONT

White Enamel Graduations
PACKED IN CARTONS OF 1 DOZEN EACH.

REGISTERED Telph TRADE MARK

Chemist's Name & Address
ADVERTISE YOUR BUSINESS IT WILL PAY YOU!

BACK

Best Medicine Glass Value in the World.
NO CHARGE for NAME PLATES up to 36 Letters.

Quality Tells!

3 dozen with Chemist's Own Name ..	.. 10/9 per dozen
4 " " " " " ..	.. 10/6 "
8 " " " " " ..	.. 10/- "
12 " " " " " ..	.. 9/9 "
Without Chemist's name (not less than 1 doz.)	.. 8/8 "

All Carriage Paid (U.K.). packages free. Cash with Order 10% discount. 5% one month prompt, 3 months net.

OBTAINABLE FROM—L. J. WHITE, 7 Terrington Park, London, N.12, from whom a sample named "Perfection Medicine Glass" can also be had post free for 10d. in stamps. The sample shows the style for naming, and will readily sell in your shop at a profit.

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Medical Flats, Panels, Vials, Poisons.
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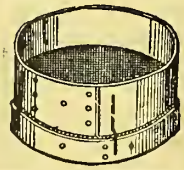

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All work returned same day.

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PHOSFERINE

The wholesale price of PHOSFERINE is as follows:

1/3 Size	....	....	**12/- doz. Net**
3/-	„	....	....	**30/-**	„	„
5/-	„	....	....	**48/6**	„	„
12/-	„	....	....	**114/-**	„	„

The retail prices of PHOSFERINE and all our other Proprietary Medicines are now fixed at the face value, viz.

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SPECIAL WINDOW DISPLAY OFFER.

Against the conditional £5 worth of PHOSFERINE being taken, a bonus of 10/6 will be allowed for a Phosferine Window Display of not less than two weeks.

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3½ dozen **1/3** size at **12/-** net	...	£2 2 0	£2 12 6
2 dozen **3/-** size at **30/-** net	...	£3 0 0	£3 12 0
		£5 2 0	
Less **10/6** for Window Show	...	10 6	
		£4 11 6	£6 4 6

GIVING YOU A PROFIT OF OVER **35%**, OR **£1 13 0.**

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STRAWHAT DYES

Send for Pattern Book of Latest Shades.

Special NON-INFLAMMABLE SERIES for Export.

"AURORAL"
COLD WATER
DYES

Retail at 6d. Showing at least 50% Profit on Outlay.

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WHITAKER'S VARNISH STAINS.

WHITAKER'S UNIVERSAL FABRIC DYES.

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Telegrams: "Dullette Kendal." Telephone: No. 214.

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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON E.C.4

SEPTEMBER 3, 1921

This Supplement is inserted in every copy of The Chemist & Druggist

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

ADDRESSED WRAPPERS STAMPED ONE PENNY

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS.

Will advertisers please note that until further notice it will be necessary that Advertisements intended for the Supplement must reach us not later than the FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—MIDDLESEX (Suburban).—Old-established Business; returns last year £3,250; *net profit* £800; small residence; rent £45; 32 years' lease; practically no opposition; price £1,500, or near offer entertained.

2.—LONDON, W.—Ready-money Retail, capitally situate in shopping thoroughfare; returns, present rate, between £30 and £40 per week; *gross profit one-third*; rent £35; price £1,200.

3.—LONDON, S.E.—Cash Retail Business, situate in busy main thoroughfare; returns £1,700, at good prices; excellent opening for extension under qualified management; lock-up shop; held on long lease; further particulars on application.

4.—KENT (Suburban).—Cash Retail Business; established many years; returns, present rate, £2,000 per annum; *net profit* 30%; single-fronted shop, handsomely fitted and well stocked; large house; long garden; held on lease; price to be arranged.

5.—LONDON, S.W.—Good medium-class Retail; no booking; returns about £40 weekly; *net profit* £500 *per annum*; single-fronted shop; held on lease at low rental; no near opposition; price £800.

6.—LONDON, E.—General Retail and Prescribing Business, with excellent opening for N.H.I.; returns last year £2,000; *net profit* 25%; rent £60; comfortable residence; double-fronted shop, well fitted and stocked; price for Business £500; property must also be purchased.

7.—WESTCLIFF-ON-SEA.—Old-established Business, Retail and Dispensing; returns between £2,000 and £2,500, increasing; *profits good*; there is a residence, with bathroom, garden; held on lease.

8.—MIDLANDS.—A Retail and Wholesale Business, comprising small Packed Goods; returns upwards of £12,000 per annum, with scope for development; long lease; terms, stock and fixtures by valuation and premium for lease and goodwill; the investment offers a good opening for two energetic men.

9.—SOUTH-WEST COAST.—Old-established Business, capitally situated; returns exceed £2,000; *net profit* 25%; attractive, well-fitted shop, fully stocked; further details on application.

10.—SURREY.—Good-class Retail and Dispensing Business, situate in good-class district, within easy reach of town; returns, under management, £3,600, at good prices; well-appointed shop, fully stocked; valuation terms entertained.

11.—BIRMINGHAM.—Ready-money Business; returns £1,000 yearly; *net profit, after paying all expenses*, £5 *weekly*; vendor values stock and fixtures at £350; six-roomed house; rent £12 yearly inclusive; no near opposition; price £380.

12.—SOUTH MIDLANDS.—Unopposed Village Business; returns £1,200; open to considerable increase under energetic management; comfortable residence; vendor's own property; all in good repair; satisfactory reason for disposal; price, to include property, for an immediate sale, £1,000.

13.—SUSSEX (Coast).—For immediate disposal, through dissolution of partnership, branch Business, recently opened in good-class district; returns, present rate, between £30 and £40 weekly, and there is scope to largely augment the turnover under personal attention; double-fronted shop; main thoroughfare; good stock; terms, valuation of stock and fixtures.

14.—NORTH-WEST COAST.—Light Cash Retail Business; returns between £3,500 and £4,000, at good prices; single-fronted shop, modern fittings; amply stocked; held on lease at low rent; further details on application.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a perodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such services.

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1. SOUTH LONDON. Brisk cash retail at good profits. Returns under manager, £2,600; busy market thoroughfare; plenty of scope; rent covered by let-off; good stock. Price £1,550; recommended.

2. HERTS. Unopposed light country retail business, easily worked. Returns exceed £1,000. Rent, £25; nice house and garden; well-stocked shop. Price £650.

3. HUNTINGDON (near). Unopposed. Returns over £1,100; good house; nearest chemist eight miles. Price, with freehold, about £1,000.

4. BIRMINGHAM. Returns, £1,000. Rent, 12. Six-roomed house. Price, £300, bare valuation.

5. LONDON, N.W. (central position). Good-class business. Returns, £2,400, half profit. Long, valuable lease at low rent; well fitted pharmacy, fully stocked. Price £2,000.

6. LONDON, S.W. Good-class light retail. Returns, £30 weekly under manager. Plenty of scope; main-road position; good stock. Price for quick sale, £750.

STOCKTAKING VALUATIONS.

We are now booking dates for September, and invite early applications for our special terms.

ESTABLISHED 1870.

The Association of Manufacturing Chemists

—LIMITED—

Head Offices—26/28 Kimberley House, Holborn Viaduct, London, E.C.1

(and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, *Accountant & Valuer.*

PHONE: CITY 6942.

Chemists' Business Transfer Agency, Auction and Valuation Department.

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Chemists desiring to dispose of their businesses, Wholesale or Retail, are invited to place them in our hands. We possess a unique register of bona-fide purchasers.

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Intending purchasers will do well to consult us, as we have an unrivalled experience in the sale, transfer and valuation of all classes of business, and give expert advice free of charge.

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We make a special feature of this very important work, and having a large and qualified staff to assist us, we can carry on the same expeditiously and without interruption to business. Moderate and inclusive fees.

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Pharmaceutical Chemist, M.P.S.

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Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by the British Drug Houses, Ltd., Messrs. Meggeson, Ltd., Messrs Barclay & Sons, Ltd., and many other leading Wholesale Houses.

Valuers to the Association of Manufacturing Chemists.

Make a Speciality of the examination and reporting fully to Vendors or Purchasers as to Value, Prospects, Conduct, &c., on Moderate Terms.

Registers kept of Businesses for Sale. No Charge to Purchasers. Enquiries invited Personal attention given in all cases.

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Special Terms for Stocktaking and Pricing of Chemists' own Stock Sheets.

All Valuations have the personal attention of C. C. Marsden.

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EXPERT CHEMISTS' VALUER, STOCK-TAKER AND TRANSFER AGENT

WILL PROSPECTIVE BUYERS OR SELLERS COMMUNICATE WITH Mr. GEORGE, giving FULL PARTICULARS, AS HE IS CONTINUALLY RECEIVING ENQUIRIES FOR BUSINESSES.

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26 LANGSIDE ROAD, NEWLANDS, GLASGOW

AGENCIES.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

SWITZERLAND.—Active Representative, having office, Warehouses, and good connection generally with firms throughout Switzerland, desires to get in touch with first-class Wholesale firms dealing in Drugs, Herbs, and Chemical Products; excellent financial and commercial references can be produced. Write Case postale Mt. Blanc 6683, Genève.

AGENCIES
WANTED FOR CANADA.

WE want good specialities to sell in Canada. We offer manufacturers equitable and effective representation. Correspondence solicited. Lane & Watson, Distributors famous La Sage Products, Box 289, Station B, Montreal, Canada.

CHEMIST, South-West Norfolk, is open to take up good Agency for district amongst Farmers and others for spare time; well known. Apply 15/59, Office of this Paper.

BUSINESSES FOR DISPOSAL.

he **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **1/-**.

ENSINGTON.—Modern fitted and well-stocked lock-up Pharmacy in good position; long lease; no N.H.I. nor syphon ade; returns approach £4,000 at good profits; fine opportunity increase Dispensing connection, price £3,000 all at vacant ssession of house (eight rooms), near Wandsworth Common ation; can be had September quarter if required. Apply 199/4, fice of this Paper.

IVERPOOL.—Limited Company of Cash Chemists will be disposing of a Pharmacy at the end of present financial year, ecember 31st or earlier; turnover £3,000 under management; ivate Pharmacist or big concern could easily increase to £100 eekly; quick Retail, Photographics, and N.H.I. Dispensing pproximately 5,000 soripts per anhum); at juuction of five main ads; reason for sale, proprietor, who has three Pharmacies, shes to concentrate on head shop; rent £52 per annum; let off use part at £52 per annum, leaving only rates to pay; new five ars' lease just granted; Kodak Agency and Rexall Agency hich iu view of Boots' amalgamation and supplies from Nottgham is invaluable); electric light; first £1,500 procures. Fervidus" (21/28L), Office of this Paper.

XFORDSHIRE.—Old-established Business, with wine licence; excellent double-fronted shop and very convenient modern use, with vacant possession, in market town; shop well fitted mahogany and well stocked; returns over £20 weekly; full rticulars in return for banker's reference. 200/28, Office of is Paper.

OUTH MIDLANDS.—Unopposed Country Business for Sale, or exchauge for one in South West; price £1,100; returns ,700; rent £45; lease 20 years to run; profits £350; good use (seven rooms), also private garden, planted fruit trees, etc., ced in; five minutes' walk from shop; price £200. Dickson, nslow.

UFFOLK.—Opportunity to acquire an unopposed, old-established Business and freehold property; excellent situation; doing nover of £2,000; premises just re-decorated outside; Business Light Middle-class, with Kodak and Ucal agencies; no Heavy Agricultural trade; little booking; price, all in, about £1,650. rite 193/8, Office of this Paper.

VEST OF ENGLAND.—Sound, old-established, high-class Business for immediate Sale, with several valuable Proprietories; d living accommodation; excellent profits and position with g lease attached; exceptional opportunity; price £1,800 for quick nsfer; particulars in return for banker's reference. Apply 9/8, Office of this Paper.

VEST OF ENGLAND, Seaside Resort.—Genuine old-established Cash Retail and Photographic; ill-health cause of sale; rens over £5,000; open to sell property with Business or grant se; remarkable opportunity; replies must contain bankers' erences. 201/18, Office of this Paper.

N country town Huntingdonshire of 900 inhabitants, with large outside district additional; turnover about £1,100; Business and property sacrifice £1,075 cash; property in excellent dition, recently decorated throughout; proprietor absent ough ill-health; suit gentleman desiring supplement income. dress "Country" (197/40), Office of this Paper.

ROPRIETARY Article; estimated net profit this year £600 to £700; during the war vendor was too busy with other cerns to give attention; previously returns much larger, can again; business can be carried on or removed; price £1,000, ue of plant and stock; references required. 45/35B, Office of s Paper.

NOPPOSED, village Business, close to large permanent military camps; Kodak Agency; rent 15s. per week insive; takings average £26; qualified could do more, but very table for smart unqualified; price £450; a bargain, or would sider exchange for small Business in or near London. Apply 3/5, Office of this Paper.

NOPPOSED Drug Stores, on main road, six miles from London; returns £2,000; very profitable cash trade; no king; established 10 years; good living accommodation; side rance; well stocked and fitted; rent £60; long lease; £1,400 quick sale; no opposition; genuine. 201/32, Office of this per.

NOPPOSED Good-class Retail and Light Agricultural, in pleasant district; good house; returns £1,700; net profit 50; nearest opposition some miles away; Home County; low t on long lease; only applicants with references enclosed will answered; price £1,100. 45/350, Office of this Paper.

PREMISES FOR SALE.

ANCHESTER (City Road).—Shop, with living accommodation; Chemist now occupying, leaving September quarter. Apply nchester Trades Supply Co., Ltd., 89 City Road, Manchester.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **1/-**.

KETTERING OR DISTRICT.—Business required, doing turnover of £2,000 to £4,000; smaller business considered if scope; replies treated in strict confidence; references exchanged. "Rutland" (196/6), Office of this Paper.

NORTH-EAST COAST OF YORKSHIRE.—Chemist's Business wanted, if possible with house attached; not less than £500 net profit; full particulars in strict confidence; early transfer desired. Apply 199/2, Office of this Paper.

ADVERTISER, Pharmaceutical Chemist, is willing to pay £2,000-£3,000 for sound Business in London; West End preferred; or would take share to that amount; trade references can be given; replies confidential. 200/18, Office of this Paper.

BUSINESS wanted; coast or healthy country town; house accommodation with gardens; no agents; cash available £1,300. Details in confidence to "Plasmon," c/o Messrs. J. Woolley, Ltd., Victoria Bridge, Manchester.

COUNTRY Business wanted with good housing accommodation by lady (qualified); S. or S.W. preferred. Reply, with full particulars as to population, lease (if renewable), rent, rates, gas, and sanitation, might purchase freehold, or partnership entertained with view to succession, Mrs. Sharp, Waterford Road, Ashley, New Milton, Hants.

SMALL Drug Store Business wanted. Particulars to "Drugs" (201/33), Office of this Paper.

WANTED, small Chemist's Business, or Mixed Drug Store; any kind considered; Liverpool, Manchester, or industrial Lancashire district preferred, but not essential; must have living accommodation and be capable of development; please state price and usual particulars, in confidence. 201/29, Office of this Paper.

WANTED, small high-class Dispensing Pharmacy with living accommodation; South Manchester, seaside, or suburb, North preferred; would manage neglected business with view to succession in stated time if district suitable, or Manager-Partnership where personality essential; highest qualifications and references; business building ability, initiative, and energy; full particulars, including net profit, lease, rent, and rates, cash available for transfer. Apply 199/16, Office of this Paper.

WANTED, small, up-to-date and well-fitted Pharmacy or Drug Stores in Lancashire, Liverpool preferred. Full particulars, including rent, rates, net profits, strictly confidential, lowest cash price. G. S. Peers, 7 Colebrooke Road, Dingle, Liverpool.

PARTNERSHIPS.

PARTNERSHIP.—Wanted, a young man as Assistant, with view to partnership, in good-class Mixed Country business; unmarried at first; with capital; good opportunity for a suitable man; Eastern Counties preferred. Apply, with full particulars, to 202/8, Office of this Paper.

PHARMACIST, 15 years' sound experience in all branches of the Retail, desires partnership, or would manage with view to succession; capital available, £500. Write 201/14, Office of this Paper.

FOR SALE.

COUNTER Showcase; mahogany and bent plate-glass; mirror back; to open; velvet-lined trays; display shelves at back, with serving space in centre; 8 ft. long, 16 in. wide, 8 in. high; £12. Also Showcase, mahogany and plate-glass; four movable shelves (wood); 27 in. high, 24 in. wide, 4½ in. deep; £3 10s. Both perfect condition. Reply to 199/18, Office of this Paper.

FOR Sale.—4 doz. × 4d., 3 doz. × 8d., ½ doz. × 1s. 3d. Hawley's I.K.; 1 doz. Quinine Pessaries (12's); 6 × 36's, 3 × 24's Sandalwood Oil Caps. (min. 5); 6 × 4 lb., 6 × 2 lb. White Ointment Jars, dome lid, gold labels; 6 × 1s. 3d. Kaputine Powders. Best offers, whole or part, 202/20, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers correspondents in this country.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

"COUNTRY Chemist," Box 185/28, thanks all applicants for his vacancy, and begs to state that the situation has been filled.

BIRMINGHAM, NEAR.—Unqualified Assistant (Male) required for quick cash Retail and Dispensing (N.H.I.) business; state age and salary required. Apply 198/34, Office of this Paper.

BOURNEMOUTH.—Qualified Assistant; outdoors; permanent; middle September; no late duty; Sunday, two hours alternate Sundays; lunch, tea, one hour each; must be good address, good Counterman, knowledge Photography, give age, height, when qualified, experience, references; interview preferred; if I approve particulars will pay single fare. Attwell, Pharmacist, Boscombe.

BRIGHTON.—Required, about September 19th, Junior Assistant for good-class Retail and Dispensing Business. Apply, with full particulars as to age, experience, salary required, etc., to F. C. Jackson, 16 Western Road, Hove.

CAMBS.—Competent Assistant required for country Retail; outdoors; state age, experience, salary required, and when disengaged; applications not answered in four days declined. Apply 198/39, Office of this Paper.

LANCASHIRE Coast Resort.—Experienced unqualified Assistant wanted; must be good Window-dresser and quick at Counter and Prescribing. State fullest particulars and enclose photo to 202/11, Office of this Paper.

LONDON.—Qualified Manager required for good-class Retail and Dispensing business; applicants must be well up in Dispensing, have a knowledge of Photography, and be of strictly sober habits; the position offers plenty of scope to a man of energy; a good salary and commission together with free house is offered; only men with good all-round experience and capabilities need apply. Apply by letter, stating age and experience, to R. M. Graham, 9 Station Parade, Willesden Green, N.W. 2.

LONDON, N.—Qualified Assistant wanted for brisk Retail and Dispensing business. Please state age, height, experience, references, salary required, and when disengaged in first letter, or apply personally, to Bishop & Vincent, 460 Holloway Road, N. 7.

LONDON, WEST-END.—Wanted (at once), Junior Assistant for Dispensing business; must be well educated, and have had first-class training. Apply, giving full particulars of experience, etc., and state salary required, to 197/33, Office of this Paper.

MANCHESTER, S.W.—Unqualified Assistant in Light Retail and Photographic business; knowledge of Developing and good Dispensing experience necessary. Full particulars in first letter to 198/6, Office of this Paper.

NORFOLK.—Competent Assistant, single, for good-class Business; Photography and Agricultural; smart Counter man, able to take control occasionally. State age, height, experience, salary (outdoors), when disengaged, Longmate, Chemist, King's Lynn.

NOTTINGHAM.—Junior Assistant or Improver wanted; used to Light Retail and Dispensing business; suit one just out of apprenticeship; facilities for study. Give particulars of previous experience and salary required, applications not answered in three days declined, enclose photo, to E. W. Whitchurch, Chemist, 50 Goldsmith Street, Nottingham.

NOTTINGHAM.—Junior Improver, commencing September 26; Light Retail Business; Dispenser kept; give details of experience, age, salary required; outdoors; no Sunday duty; enclose photo if possible; letters unanswered in three days declined. Applications to Middleton, 8 Marine Gardens, Barmouth.

TUNBRIDGE WELLS.—A Junior Assistant, of good training, required at once in Dispensing business; send full details of experience, age, salary required, and state if qualified; enclose photograph (to be returned). Apply to A. E. Hobbs, 20 St. John's Road, Tunbridge Wells.

WALLINGTON, Surrey.—Wanted, Junior Assistant, not under 21, having had experience in a good business; hours easy. Apply, giving particulars of references, stating salary required (outdoors), to J. Noble, 20 Woodcote Road, Wallington, Surrey.

AN experienced, unqualified Assistant required immediately for about one month; must be reliable Dispenser. Apply, stating salary required, etc., J. Horrell & Son, The Pharmacy, Broadstairs.

AN experienced qualified man as Senior in a high Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace (opposite West Keasington Station), W. 14.

ASSISTANT wanted to take charge of Spectacle Department in absence of principal; must be experienced and quick in sight testing and to assist at Retail Pharmacy Counter; working-class business. "Wales" (198/1), Office of this Paper.

ASSISTANT, Junior, or Turnover wanted (outdoors) for mix country business; no N.H.I. Dispensing, no Sunday duty state age, salary required; good references essential. W. Mousle Chemist, Redditch.

ASSISTANT wanted for mixed country business; age 20 to 2 must be energetic. Full particulars of experience, ag height, and salary required, and enclose photo (to be returne Wain & Maxfield, Chemists, Langley Mill, Notts.

ASSISTANT, unqualified, for four or five weeks from Septe ber 12; reliable Dispenser. State age, usual particula references, and salary required (outdoors), Hill, Chemist, Leig on-Sea, Essex.

ASSISTANT, lady or Junior, well experienced in Dispensi Please give particulars of experience and state when f and salary required, Amon, Chemist, 436 High Road, Streatha S.W. 16.

JUNIOR Assistant (male), unqualified, wanted September 26t accustomed to brisk Counter trade and N.H.I. Dispensi Apply, personally or by letter, giving full particulars and sal required (outdoors), to J. Patterson, 52 Ilford Lane, Ilford.

JUNIOR (male) Assistant or Improver wanted (outdoors) end September in West Wilts; easy hours; please give full p ticulars and salary required. Apply "H. T." (198/40), Of of this Paper.

JUNIOR (male) Assistant wanted, with knowledge of Photogra and Dispensing. Apply, with full particulars, to Winden Ltd., 118 Ewell Road, Surbiton Hill.

JUNIOR wanted, outdoors (first week in October); must accustomed to Dispensing and Photography; full particul age, salary required, etc. Willis, Pharmacist, Brixham, Devo

PARKE'S DRUG STORES LIMITED, require the services a qualified Manager. Applicant must be energetic reliable, and have sound business experience and good knowle of Photography; highest references required. Apply any morn (except Saturday) between 10 and 12 o'clock to 65 Harm Street, Camden Town, N.W.

PHARMACIST-OPTICIAN required, qualified in both branc for good-class business; single. Full particulars as to experience, references, salary, when disengaged, to E. T. Neat coat, The Elms, Weybridge, Surrey.

QUALIFIED Assistant (male or female) for N.H.I. and gen Retail; must be a quick Dispenser and good Counter h Apply, with full particulars of age, experience, references, salary required, H. E. Graham, Ltd., 197 Bridgman Street, Bol

QUALIFIED Assistant wanted at once; young, energetic required; one used to quick Cash business; perma position if suitable. Please state salary required, with refere Hankeys, 10 Colne Road, Briefield, near Burnley.

REQUIRED soon, for about six weeks, a capable qualified A tant, æt. 30-35, used to good-class business; must be Counterman and Prescriber and accurate Dispenser; Kodak k ledge essential; able to take full control; give full particula experience, salary (outdoors), and two recent references in st letter; no reply six days, declined. Coates, 9 Beach Road, L hamptou.

REQUIRED, Assistant, unqualified (outdoors), young, Counterman and reliable Dispenser, with knowledge of P ography and Window-dressing. In reply, please state age, sa required, and full particulars to J. E. Evans, 69 Leyton Road, Stratford, E. 15.

SURGICAL INSTRUMENT DEALERS.—Competent Assistan quired with thorough knowledge of Surgical Instrum Apply by letter, giving full particulars as to past exper age, and salary required, to Millikin & Lawley, 165 St W.C. 2.

TEMPORARY Assistant (male or female), experienced in pensing, wanted for a fortnight from about September applications not answered in three days declined. Apply, st experience and terms, Seth Harry, Okehampton, Devon.

UNQUALIFIED, single preferred; gentlemanly, active, experience, quick Dispenser and Window-dresser; applic please send three testimonials; no photo in first letter; good business; Manchester district; applications not answered in days respectfully declined; state salary required. Apply 19 Office of this Paper.

WANTED, middle of September, Dispenser-Bookkeeper for general practice; previous experience preferred; furnished rooms provided. Write, giving full particulars, to Drs. Bod Murphy, 109 Borough Road, Middlesbrough.

WANTED, temporary Assistant (outdoors), September 1 October 15th, for Dispensing and Stock. Salary and ences to Armstrong, 165 Blackstock Road, Finsbury Park.

WANTED, competent Assistant, age 22 to 23, for midd Counter trade; little Dispensing; outdoors. Apply, particulars of experience, height, and photo, to C. F. H Chemist and Optician, 20 High Street, Uxbridge.

WANTED, reliable Assistant; Coal district; Welsh-spe outdoors; good Salesman; abstainer. Apply, with fu tieulars, photo, D. George, Chemist, Pentre, Glam.

WANTED, temporary qualified Assistant, in high-class Dispensing business, for about six weeks, immediately. Chemist, Woodhall Spa.

WANTED, Junior Assistant, or one just left apprenticeship, for good-class Dispensing and Retail business in Eastern Counties; state age, height, salary indoors or outdoors, when disengaged, and names of employers. Apply 201/21, Office of this Paper.

WHOLESALE.

BERKS, BUCKS, BEDS, AND OXFORDSHIRE.—Representative required, with an established connection amongst Chemists on the above grounds, to carry winter Packed Goods (well known) on a good commission basis. Apply "Quality," 30 Brackley Road, Chiswick, W. 4.

FIRST-CLASS and experienced Typist-Secretary (male or female) required by Principal of Wholesale Drug house; must be fast and accurate shorthand writer and typist, and have some knowledge of the Drug and Chemical trade. State experience, age, salary required, etc., to Goodall, Backhouse & Co., Leeds.

FIRST-CLASS Representative required for Wales, preferably with established connection; whole-time appointment. Apply 32/83, Office of this Paper.

LARGE Manufacturing Firm in the West of Scotland require capable young man to manage and develop Essence, Colour, and Sundries Packing Department; Chemist with sound knowledge of the trade and accustomed to introducing new lines preferred. Give experience, qualifications, and full particulars, 30/52, Office of this Paper.

REPRESENTATIVE required with first-class provincial connection in the Glass Bottle trade; a knowledge of Drugs would be advantageous. Apply 45/34B, Office of this Paper.

REPRESENTATIVE wanted to work London on commission only; must have a thorough knowledge of glass trade; specialise in moulded glassware of Continental make. Apply 24/68, Office of this Paper.

REPRESENTATIVE wanted for (1) South Coast, (2) Midlands, (3) Manchester and District, for Toilet Preparations and Packed Goods, Manicures, etc.; no objection non-competing line. Full particulars, experience, territory, terms, etc., to 15/58, Office of this Paper.

REPRESENTATIVES.—We require live Salesmen to carry complete lines of Compressed Tablets, Toilet, and Photographics for districts—Manchester, Newcastle, Yorkshire, East Coast, and London; liberal commission and small contribution towards expenses. Apply, by letter, to White Band Manufacturing Co., Ltd., Croydon.

REQUIRED, some good Representatives for a high-class line being launched in a large and entirely novel advertising scheme; very liberal commission to right men, and that only; permanency, and no objection to other lines. Write only, first, to Milkalene Dept., The One-a-Head Novelty Co., 113 Newington Causeway, London, S.E. 1.

SALESMEN, with connection, wanted to sell, on liberal terms, non-competitive, nationally advertised speciality to Chemists, on commission basis; exclusive territory; strong co-operation. H. P., 46 Goswell Road, E.C. 1.

SUNDRIES, DRUGS, TABLETS.—Efficient Representative wanted by established Manchester firm; state age, experience, and salary required; give full particulars in confidence. Apply 198/13, Office of this Paper.

TRAVELLER, with good connection London Chemists and Stores, for Packed and Toilet Goods, Manicures, etc. State in confidence experience, lines carried, terms, etc., to 15/580, Office of this Paper.

TRAVELLER wanted to call on London Export Houses, Paint and Varnish Manufacturers, Wholesale Druggists, Mineral Water Manufacturers, etc., in London area or to take all territory below line from London to Bristol; salary £150 and commission; actual expenses allowed. Apply 30/53, Office of ihts Paper.

WANTED, by old-established firm of manufacturing Chemists, Travellers calling upon Chemists in all distriots of London and suburbs, to introduce competitive, well-packed, and ready-selling winter lines, on a high commission basis; good scope for the right men. Write, in strict confidence, stating districts covered and lines now carried, to "Sales Manager" (P.C.B. 17/7), Office of this Paper.

WANTED, Representatives for Midlands, Wales, and Eastern Counties, for excellent-selling Winter Line, on commission; good connection with Chemists necessary. 41/10V, Office of this Paper.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

6s for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CEYLON.—Optical; Refractionist, with S.M.C. or B.O.A. diploma preferred, required for high-class British firm in Ceylon; age 25 to 33; single; excellent opening. Apply, giving full details of experience, and stating whether Dispensing Chemist, to P.C.B. 22/17, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A. LOCUM; experienced; take entire charge; moderate terms; highly recommended; disengaged September 25th onwards. "Pharmacist," c/o Greenfield, Hunter's Bar Pharmacy, Sheffield.

A.A.A.—REALLY good unqualified Assistant (30), at present abroad, seeks situation, home or abroad, where 14 years' all-round experience, including two years' Continental, would be useful; speaks French and Italian; seeks position to make use of good experience, not to gain same; free any time. Apply 200/16, Office of this Paper.

A.A.A.—PHARMACIST, disengaged (27) requires position; Branch Manager or Locum; highest references. Apply "M.P.S.," 96 Stocks Street, Manchester.

A.A.A.—DOES any Chemist require a live and trustworthy Manager or Locum, with view to early succession? 28; twelve years' good experience; pre-war qualified; excellent references. Apply "M.P.S." (201/8), Office of this Paper.

A.A.—QUALIFIED (28), first-class Dispensing and Counter experience, excellent references, permanency desired; North-East country preferred, but not essential. Williamson, 11 Nelson Terrace, Darlington.

A CAPABLE and reliable Pharmacist, tall, 30, desires permanency as Manager or Senior; best references and all-round experience, Photography, N.H.I., etc. Leon, Marske-by-Sea, Yorks.

A CHANGE desired; Glasgow, Hamilton, or District; Assistant or Manager; qualified; 13 years' experience, including Company business; competent, reliable; salary arranged. Write to 201/16, Office of this Paper.

A PHARMACIST, long experience, reliable, capable; wife successful Saleswoman; joint engagement much esteemed. "Pharmacist," 12 Denne Road, Horsham.

A QUALIFIED Chemist; 48; experienced Dispenser; all-round experience, also N.H.I. and Institution. "Pharmacist," 7 Cobourg Street, Leeds.

A QUALIFIED Chemist as Manager or Assistant; 20 years' experience, permanency desired. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

A QUALIFIED gentleman requires Managership in Blackpool with view to succession. Apply 191/23, Office of this Paper.

A RELIABLE Manager, Assistant, or Locum; disengaged; first-class references and experience; moderate terms. "Chemist," 6 Eastbourne Terrace, London, W.

ACTIVE Counterman or Stock (unqualified); smart Salesman; City and West-End experience; capable, energetic. "Rhei," 37 Brunswick Road, N. 15.

ADVERTISER desires post (immediately) as Assistant; 16 years present situation; outdoors; highest references; unqualified; accustomed take charge; moderate salary. "Statim," 390 Clapham Road, S.W. 9.

ADVERTISER (19), served 3 years' apprenticeship, desires position in good-class Pharmacy; thoroughly reliable, trustworthy; excellent references; free November 7th; South preferable; please state salary. Hatley, 27 Stanley Road, Oxford.

ADVERTISER desires position; thoroughly reliable, trustworthy; excellent references; good experience Counter, Dispensing, Photography and Window-dressing; Liverpool district. 200/13, Office of this Paper.

ADVERTISER, with excellent all-round experience, desires permanency; London or provinces; competent to take entire charge; good references. 202/13, Office of this Paper.

AGE 22, unqualified, requires post, three weeks; disengaged 12th September; good Dispensing experience. "Narez," Yewtree Cottage, Ross, Herefords.

AN experienced Dispenser (Hall), lady; experienced Hospitals, Institution, and Surgery; excellent testimonials; in London or near. Apply 201/24, Office of this Paper.

APPRENTICE.—Youth (18), with knowledge of Dispensing and Photography, wishes to be apprenticed to Chemist. Write, full particulars, to "Apprentice," 300 Commercial Road, London, E. 1.

AS Assistant Dispenser; age 27; married; three years' experience as Assistant Dispenser and Dresser. M.L. 75250, Office of this Paper.

AS Assistant, elderly, requires work three days a week or part-time; references; good experience; London. Apply "Statim" (201/34), Office of this Paper.

AS Locum or permanency immediately; 15 years' Dispensing, Counter, Photographic experience. Benson, 41 Spratthall Road, Wanstead, Essex.

AS Locum; disengaged September 15; highest references; London or provinces. "Chemicus," 22 Swarthmore Terrace, Thornaby-on-Tees.

AS Manager or Assistant; qualified; 23; six years' experience North and South; excellent references; London, South, or Midlands. Apply 201/23, Office of this Paper.

ASSISTANT, Student (27), College trained, desires permanency in London or suburbs; eight years last berth; disengaged. Apply 198/2, Office of this Paper.

ASSISTANT.—Young lady, 3½ years' all-round practical experience, desires post; Ucal or Rexall; excellent reference; Midlands preferred. Apply 199/27, Office of this Paper.

ASSISTANT; unqualified; 31; tall; over ten years' good all-round experience; well recommended. Harold M. Marshall, 100 Ledbury Road, W. 11.

ASSISTANT or Dispenser, lady; Hall qualification, five years' experience as Apprentice and Assistant. Beynon, Llansaint, Kidwelly, Carmarthen.

ASSISTANT (25), unqualified; five years' good experience; highest references; disengaged. H. Jenkins, Cilgadan Fawr, Llandefeilog, near Kidwelly, Carmarthenshire.

ASSISTANT (33), tall; Dispenser, Counterman; good appearance; married; disengaged; ex-Service. "Statim," Trensale House, Polesworth, near Tamworth, Warwickshire.

BRANCH, Senior; 25 years' practical experience Dispensing, Prescribing, Dentistry, Photography; keen Salesman; permanency desired; light Wholesale entertained. Munslow, Evesham.

BRISTOL.—Young lady, Scotch, seeks situation as Junior Assistant; Bristol or district, on expiration of apprenticeship in September. Apply Miss Yeats, c/o M. Findlay, Chemist, Cullen, Banffshire.

DISENGAGED, September 10th; qualified; Manager or Locum; æt. 46; London preferred. "Chemist," 108B Elgin Avenue, W. 9.

DISPENSER.—Young lady desires post with Doctor or Chemist outside London; knowledge of Bacteriology and Surgery routine; free middle of September; references; moderate salary; Locum or permanency. Apply Sandes, 4 Grove Court, Belsize Grove, Hampstead.

DISPENSER (lady), Hall, desires post; permanent or Locum; experienced; good testimonials. Apply 39 Kempshott Road, Streatham Common, S.W. 16.

DISPENSER (lady), qualified, seeks situation with Doctor or Institution; Newport or Cardiff district. Reply 200/19, Office of this Paper.

DISPENSER or Chemist's Assistant (lady), 19; 2½ years' experience; partly passed Hall; Birmingham district preferred, but not essential. Apply 199/29, Office of this Paper.

DISPENSER, qualified, seeks position; South Coast, Bournemouth area preferred. Apply 199/11, Office of this Paper.

DISPENSER or Chemist's Assistant; 21; 4 years' experience as Apprentice and Assistant. M.L. 590, Office of this Paper.

DISPENSER, Bookkeeper, Doctor; elderly, qualified, experienced; live out or in; salary moderate. Address P.C.B. 25/19, Office of this Paper.

ELDERLY qualified Chemist and Dentist desires easy berth; in- or outdoor; low salary; all-round experience; interview desirable; reliable. 202/9, Office of this Paper.

EXPERIENCE wanted; London or country; nominal salary; qualified; 23, tall, steady, reliable. "Experientia," 99B High Street, Lees, Oldham.

EXPERIENCED Assistant, unqualified, married, tall, Counter, Dispensing, Photo, etc., desires permanency, London. "Aspirin," 23 Doughty Street, Holborn, W.C. 1.

IMMEDIATELY.—Qualified, married (25), tall, Counter, Dispensing, Photography, etc., desires permanency. Proctor, 2 Higham Place, Newcastle-on-Tyne.

LANCASHIRE.—Qualified requires position; 23; tall; six years' sound experience; Photographic knowledge; nominal salary accepted in return for good experience; town or country. Apply 201/28, Office of this Paper.

LADY, 20, three years' experience, Manchester or Liverpool district, desires to attend classes one day a week to complete Hall; good at Dispensing and Counter. Apply 199/24, Office of this Paper.

LADY Dispenser, Apothecaries' Hall, desires post as Assistant Dispenser. Apply M. Church, Trowbridge, Wilts.

LADY Dispenser (Minor) wishes post; experienced; disengaged end of September; good references. Apply "A. A.," c/o Mrs. Peck, High Street, Kintbury, Berks.

LADY, young; Apothecaries' Hall; six years last berth; good-class Dispensing; Chemist, Doctor, or Institution; highest references. Banks, c/o Jones, Chemist, Swinton, Rotherham.

LADY Dispenser (young), Hall, desires post, Locum or permanency; Torquay, Dartmouth, or Tor Bay districts. Hillside, Paignton, Devon.

LADY Dispenser-Bookkeeper desires post with Doctor or Institution; Hospital experience; Hall certificate. Appy P.C.B. 24/27, Office of this Paper.

LADY Dispenser (Hall) desires post London; Doctor, Hospital, or Chemist; previous experience; typewriting; free now. Miss Durston, 10 Pembridge Square, Notting Hill Gate.

LADY (Hall) requires post with Chemist; experienced; London preferred. W. E. P., 19 Waverley Road, S.E. 18.

LOCUM or temporary; qualified; disengaged; Prescriber; elderly, active; wide experience; reliable. B. Griffiths, 6 Newcastle Hill, Bridgend, Glam.

LOCUM; experienced; take entire charge; highest references; disengaged September 25th onwards; terms moderate. "Chemicus," 2 Christian Road, Preston.

LOCUM Manager; qualified; 30 years last situation; state terms (indoors or outdoors). "Rhei," 64 Wanlip Road, Plaistow, E.

LOCUM, qualified, highly recommended; abstainer; London or suburbs; disengaged September 10th. Apply 201/27, Office of this Paper.

LOCUM, qualified, reliable; good experience; disengaged September 6th; highest references. Chemist, 27 Langdale Road, Thornton Heath, S.W.

LOCUM or Relief; wide experience; thoroughly reliable; qualified Dispenser; terms moderate. Williams, c/o Mr. Cole, Chemist, Thornton Heath.

LOCUM or permanency; Branch, Senior; experienced; disengaged September 12th; best references. Pharmacist, 24 Laurel Grove, Southport.

LOCUM or permanent; thoroughly capable Dispenser and Counterman; highest references. E., 39 St. Thomas Road, Finsbury Park, N.

MANAGER seeks re-engagement; age 30; height 5 ft. 10½ in.; married, one infant; up-to-date and wide Dispensing experience, systematic Costing and Stockkeeping, Photography, Window-dressing; genuinely fond of Counter work; energetic and ambitious; business builder; salary based on results; references from good firms; house accommodation desired if possible. "M.P.S.," Holmleigh, Fitzwilliam Road, Cambridge.

MANAGER, accustomed to first-class West-End business, is desirous of making a change; fully qualified and able to take entire charge without supervision; permanency required. Apply "I. V. P." (199/22), Office of this Paper.

MANAGER or Assistant; 27; qualified; knows French; 10 years' experience. M.L. 11044, Office of this Paper.

MANAGER (30), married; experienced all branches; thoroughly capable and trustworthy; abstainer; excellent references. P.C.B. 25/22, Office of this Paper.

MANAGER, qualified, experienced, energetic, reliable; Birmingham or near preferred; excellent references. 21 Aubrey Road, Small Heath.

MANAGER; London or Home Counties; 15 years Manager to well-known firm of cosmopolitan pharmacists in London. Apply 201/400, Office of this Paper.

MANAGER; qualified; married; age 47; best London experience; references and abilities. Apply "Acetyl" (201/12), Office of this Paper.

ANAGER or responsible position; unqualified; 38; expert Salesman; capacity for organisation and taking complete rge; modern business methods; £4 per week; London or near ferred. Apply 201/38, Office of this Paper.

ANAGER-PARTNER; £400 capital; London or 20 mile radius; best English and foreign experience. Apply 201/4, ce of this Paper.

ARRIED couple, no children, seek post with Doctor; lady experienced Dispenser-Bookkeeper, gentleman experienced ffeur-Mechanic. Apply 199/20, Office of this Paper.

M.P.S., disengaged, requires position Manager or Locum; Wholesale and Retail experiences; references. ply "F. E. J." (202/4), Office of this Paper.

HARMACIST (44) desires situation as Branch Manager; good experience and references. "A. G.," 12 Linwood Street, enheys, Manchester.

HARMACIST, disengaged, seeks permanency; Manager or Senior; first-class experience; references; town or country. bh, Milton Street, Patricroft.

UALIFIED, 32, single, 15 years' all-round experience since qualifying, active, willing worker, and thoroughly com- ent, desires permanency; management, with interest or working tnership in genuine sound concern preferred; Yorks district possible, but not essential; good references. J. R. Wilson, land Hall, Norland, near Sowerby Bridge.

UALIFIED, as Manager, Senior, or N.H.; London area; 30 years' experience. "Pharmacist," 7 Egerton Gardens, ndon, N.W. 4.

UALIFIED, experienced Hospital Dispenser, Nurse, desires post, Doctor or Institution. Apply 199/15, Office of this per.

UALIFIED, 16 years all-round experience, at present doing locum, at liberty September 19th, seeks permanency, nager or Assistant. Jamieson, 39 Pepys Road, New Cross, . 14.

UALIFIED (36); West-End Dispensing experience; Locum or permanency; disengaged early September. N., 7 Denbigh ce, Victoria, S.W.

UALIFIED (26), tall, seeks engagement, Assistant or Manager; good experience, references. C. T. Stuttard, 54 North Road, yton, Manchester.

UALIFIED Chemist and Optician, with knowledge of Photo- graphy, requires situation as Locum or Manager; good all- nd experience. Apply 200/30, Office of this Paper.

EQUIRED, by lady with four years' experience at Perfumery and Toilet Preparations at Counter of busy City Pharmacy, s a similar engagement; City or West-End preferred. Reply M. T." (P.C.B. 24/25), Office of this Paper.

HEFFIELD or district.—Locum, nearing end of successful season, desires position as Manager or Assistant; qualified; single; excellent all-round experience; reasonable terms; ngaged middle October. Apply 200/29, Office of this Paper.

ART Assistant, age 38, requires a good situation; well con- versant with all the departments of the Retail; well ated; sound references. Apply "Reliable" (197/30), Office his Paper.

UDENT requires evening work; age 33; quick Counterman and Dispenser; S.W. district preferred. Apply 198/33, Office his Paper.

NQUALIFIED, 22, desires temporary situation or situation where there would be facilities for continuing studies. a, 1 Oxford Arcade, Penmaenmawr.

NQUALIFIED; married; age 34; good Window-dresser, Counter work, Prescriber, usual routine of Pharmacy, desires per- nt berth. Farrar, 43 Willow Street, Romford.

NQUALIFIED Assistant; 20 years' experience; used to quick Counter trade; highest references; manage branch if re- d. Donaldson, 5 Turk Street, Portsmouth.

NQUALIFIED Assistant Dispenser (25); trustworthy; refer- ence; London or suburbs (Essex) preferred; could interview. ., 65 Longbridge Road, Barking.

NQUALIFIED Assistant (22), four years' experience, know- ledge of Photography, good Window-dresser and Counter , desires position anywhere immediately. Apply Edwards, Sycamores," Maesbury Marsh, Oswestry.

EW to succession; Manager or Assistant; qualified (39); married; 20 years' good experience Dispensing, Counter, riber, Optical, Photography. "Cash," 21 Plough Road, 16.

OMAN seeks work; putting up Chemist's goods, post pack- ing; good worker. Lane, 15 Barnsbury Street, N. 1.

UNG lady requires situation as Counter Assistant or Window- dresser; seven years' experience; good references. Apply P. W.," 136 Links Road, S.W. 17.

UNG Lady, 21, seeks post; partly through Hall; had experi- ence in Retail and Dispensing; free now. Apply 201/15, of this Paper.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A SUCCESSFUL Salesman, with 12 years' live connection in Lancs, Yorks, Cheshire, and N. Wales, wishes to negotiate with first-class (only) house; open to appoint a capable repre- sentative. Apply 198/4, Office of this Paper.

A SUPERVISOR, with experience in engaging and managing large numbers of girls in Pharmaceutical and Chemical packing works, desires a post of this nature. In London district preferably; excellent references. Apply P.C.B. 24/26, Office of this Paper.

AS Representative, experienced Salesman, Midlands, with large established connection amongst first-class Chemists, Whole- sale, Retail, is open to represent firm of high standing, Drugs, Druggists' Sundries. Particulars, "Progressive" (200/35), Office of this Paper.

AS Traveller; age 21; tall; good address; Retail experience "Chemicus," 37 Braithwaite Road, Birmingham.

ASSISTANT or Traveller; 33; married; knowledge of French; 6 years' experience as Chemist's Assistant; general business training. M.L. 43432, Office of this Paper.

ASSISTANT, unqualified, in charge small Wholesale Chemists' Department, wants similar post or manage Drug Stores; South Coast preferred. Apply 201/5, Office of this Paper.

DISPENSER, 18 years' practical experience; could take charge Medical or Surgical Store; Wholesale preferred. W. L. Brodie, 99 Mortimer Road, Itchen, Southampton.

GOOD, quick selling lines required by Advertiser; large con- nection Chemists; allowance, expenses, and commission; small samples. Apply "Cheshire" (201/11), Office of this Paper.

LABORATORY Manager or similar capacity; qualified; 18 years' sound, practical, first-class experience manufacturing and executive duties. "Efficient" (199/13), Office of this Paper.

LABORATORY Assistant, unqualified (26), ex-Service, desires permanent position in London Wholesale house; good all- round experience as Apprentice and Assistant in West End Phar- maceutical Laboratory. P.C.B. 25/23, Office of this Paper.

MANUFACTURING Chemist, 24, educated Hartley University, fluent Spanish, good knowledge Chemistry, manufacturing and Pharmaceutical, buying experience, wishes to go abroad; Spain or Spanish-speaking countries. Apply M.L. 13256, Office of this Paper.

PASSED the Qualifying Exam. except "Poison Law," 22, desires permanency with Wholesale house; 2½ years' experi- ence; references. B. Askew, Beckfoot, Bingley, Yorkshire.

PHARMACIST, 35 years' London Wholesale and Retail, wishes branch or control of department. "Nexus" (199/23), Office of this Paper.

REPRESENTATIVE.—Young man going to South Ireland wishes to represent firms with quick selling lines; wage, commission, and part expenses; no two houses clashing repre- sented. Apply "Business" (197/36), Office of this Paper.

REPRESENTATIVE requires engagement; thoroughly experi- enced in Drugs, Chemicals, etc., Medical, Wholesale and Ex- port. "Statim" (P.C.B. 25/21), Office of this Paper.

SALESMAN, Manager, or Buyer in the Chemical trade; 37; single; 15 years' experience as Junior to Departmental Manager, 1 year as Buyer and Salesman to Chemical Merchants, also 2 years' experience as Manager of Chemical Department for General Merchants. M.L. 2915/21, Office of this Paper.

SHORTHAND Typist, lady, 25, good knowledge Drugs and Pharmaceutical preparations, seeks post. Apply 199/3, Office of this Paper.

TRAVELLER, young and experienced Salesman, seeks position with prospects; moderate salary; Drugs or Toilet articles. Apply "Pix" (202/2), Office of this Paper.

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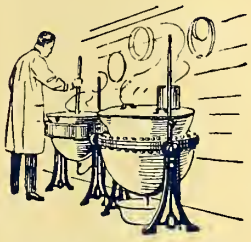
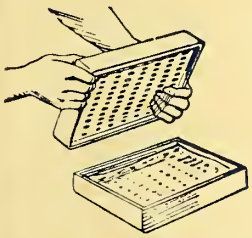
CAPSULES

WHERE & HOW THEY ARE MADE

A VISIT TO MESSRS. POTTER & CLARKE, LTD., NEW WORKS where the latest and best machinery for the manufacture of the "WINGED LION" BRAND OF MEDICINAL CAPSULES & PERLES has been installed



The Steam Pans.



The Capsule Mould.

The Hydraulic Press.

THE Coat or Casing of the Capsule is made entirely from Gelatine and Glycerine. Only the finest crystallized gelatine is used which ensures the Capsule keeping good in any climate, and from becoming pitted or mouldy. The gelatine is dissolved in the glycerine in a steam pan and is poured into the hopper of a running machine. A series of bright metal plates are then pushed under the hopper and a supply of the hot liquid poured upon them. These pass through a gauge which regulates the thickness of the coat, which averages from one-sixth to one-tenth of an inch, according to the size of the capsule.

The liquid has now set to the consistence of a jelly upon the plates. These are removed to an oven to go through a course of baking to remove all excess of moisture. The Capsule Moulds are then arranged upon a hot table. These moulds consist of two steel dies fitting one above the other, with the shape of the upper and lower half of the capsule upon them. The number made at a time varies with the size of the Capsule—the following gives the number made in one pressing:—

3 minims	280	capsules	15 minims	140	capsules
5 ,,	210	,,	20 ,,	140	,,
10 ,,	180	,,	30 ,,	70	,,

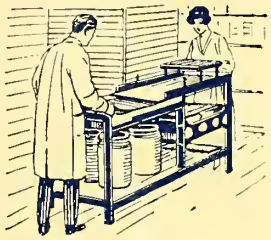
5 minim (perles) 240 perles.

The gelatine sheets are then stripped from the plates and one is laid upon the bottom half of the mould. The medicament is placed upon it—if liquid it is measured—if in solid form it is weighed and spread evenly over the surface.

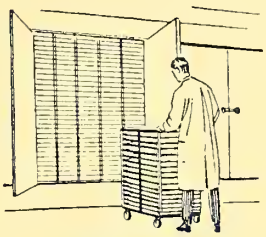
The second sheet of hot gelatine is placed on top of the medicament, all trace of air bubbles being carefully removed by careful manipulation and the top half of the mould is fitted.

The whole is placed in a powerful hydraulic press. A vigorous action of the pump soon raises the ram to the maximum pressure indicated upon the pressure gauge. This unites the two sheets of gelatine so that the join in the capsule is hardly noticeable.

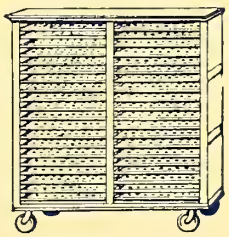
The Capsules are taken from the mould and are washed to remove any trace of the drug used in the manufacture being on the outside casing. The Capsules are laid upon trays to dry, and then polished. They are counted and packed in tins or boxes and are ready for sale.



The Running Machine.



The Baking Ovens.



The Drying Trays.

For export, all Capsules are specially hardened to withstand the various climatic conditions, the latter process being one of the so-called secrets of the trade. Probably each house has its own method of hardening but the use of spirit and air fans is the one in common use. The department is divided into two sections—Medicinal and Veterinary Capsules. The latter includes Capsules for large and small Dogs, Pigeons and Poultry, and some of the largest proprietary lines in the Country are now made here. *Price Lists sent on receipt of Business Card*

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Telegrams: "Cyanobrit, Cannon, London."

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Sales Office: 49 Queen Victoria Street, London, E.C.4.

Telephone: Central 6273 (2 lines).

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